re Minima Vonunal

L GAZETTE

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Newspaper, and for Transmission Abroad.]

No. 2225.—Vol. XLVIII.

LONDON, SATURDAY, APRIL 13, 1878.

R. JAMES H. CROFTS, STOCK AND SHARE BROKER, AND MINING SHARE DEALER. No. 1, FINCH LANE, CORNHILL, LONDON, E.C. ESTABLISHED 1842.

SINESS transacted in all descriptions of MINING Stocks and Shares (British Bushkss trausels, Banks, Bonds (Foreign and Colonial), Railways, d Foreign), Consols, Banks, Bonds (Foreign and Colonial), Railways, soellaneous, Insurance, Assurance, Telegraph, Shipping, Canal, Gas, Water,

JEINESS negociated in Stocks and Shares not having a general market

USINESS in COLLIERY and IRON Shares, and in the principal WAGON and SUFACTURING COMPANIES of the NORTH of ENGLAND and SCOTLAND. USINESS in all the principal COTTON SPINNING Shares.

BUSINESS in all the principal COTTON SPINNING Shares.

Mr. J. H. CROFTS, having now established CORRESPONDING AGENCIES in all ec CHIRF TOWNS of the United Kingdom, is prepared to deal in the various OCAL Stocks and Shares at close market prices.

ACCOUNTS OPENED FOR THE FORTNICHTLY SETTLEMENT.

Dally Price List, issued at 5 r.M., giving latest Quotations up to close of ket. Also, on the lat of every month a List of all Securities currently dealt pon the Mining and Stock Exchanges, with latest prices, current dividends, of interest yielded at market price, &c., and every Friday a general List coning closing prices of the week.

MINES INSPECTED.

ANKERS: CITY BANK, LONDON; SOUTH CORNWALL BANK, ST. AUSTELL.

'ERESBY MOUNTAIN AND D'ERESBY CONSOLS.-SPECIAL BUSINESS in these SHARES. JAMES H. CROFTS, 1, FINCH LANE, LONDON.

OREIGN BONDS — ARGENTINE — EGYPTIAN—RUSSIAN, TURKISH, SPANISH, PERU. &c. PECIAL BUSINESS in the above, and Fortnighty Accounts opened on re-JAMES H. CROFTS, 1, FINCH LANE, LONDON.

AILWAYS—HOME AND FOREIGN.
SPECIAL BUSINESS in the above, and Fornightly Accounts opened

pt of the usual cover.

JAMES H OROFTS, 1, FINCH LANE, LONDON. ISCELLANEOUS AND TRAMWAY SHARES.-

SPECIAL BUSINESS in—
MISCELLAREOUS.
hambra Palace.
restreet Warchouse.
lawes.
Lagentine.
Glagow.
London.
London.
Morth Metropolitan.
Tramways Union.
W. India and Panama.
BUSINESS TRANSACTED in all MISCELLAREOUS SHARES (of whatever description) having LONDON or COUNTRY MARKET VALUES.

JAMES H. OROFTS, 1, FINCH LANS, LONDON.
Bankers: City Bank, London: South Corruwall Bank, St. Austell.
EETABLISHED 1842.

TR. W. H. BUMPUS, STOCK AND SHARE BROKER, MINING SHARE DEALER, 44, THREADNEEDLE STREET, LONDON, E.C. ESTABLISHED 1867.

DESIRESS transacted in MINING and COLLIERY Shares of every description. Singlish and Foreign Stocks, Colonial Government Bonds, Railways, Banks, and Miscellaneous Shares, and all Scourities dealt in on the London Stock Exchange, for INVESTMENT OF SPECULATION.

Purchases and Sales negociated in Unmarketable Stocks and Shares, Speculative Accounts opened for the Fortnightly Settlement.

References given and required when necessary.

A Stock and Share List forwarded free on application.

A Stock and Share List forwarded free on application.

Mr. BUMPUS has SPECIAL BUSINESS in the undermentioned:—
5 Assheton, 23.

5 Argentine.
6 Agrentine.
70 Frontine.
70 Fortine.
70 Fortine.
70 North Lazey, 48.
70 North Lazey,

who bought. They are all improving in value, and the wind with the principal ach higher before long.

BPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

WILLIAM HENRY BUMPUS, SWORN BROKER. Offices: 44, Threadneedle Street, London, E.C. BANKERS-The NATIONAL PROVINCIAL BANK OF ENGLAND, E.C.

WILLIAM B. COBB. STOCK AND SHARE DEALER,
62, CORNHILL, LONDON, E.C.
Bankers: The Alliance Bank (Limited).

MESSRS. EKINS AND CO., STOCK AND SHARE DEALERS, 14, QUEEN VICTORIA STREET, MANSION HOUSE, LONDON.

Bankers: Metropolitan.

Special dealings in South de Eresby Mountain Shares.

MESSRS. ENDEAN AND CO., 85, GRACECHURCH STREET, LONDON, E.O., STOCK AND SHARE DEALERS. Established in 1861. Rers: Barelay, Bevan, and Co., and London and Westminster Bank, Lothbury.

English and Foreign Stocks and Shares and all other Securities dealt in for cash Paccount.

LEARWART AND BODIDRIS.—Dealers and others having business in the shares of been companies will find a ready market on application to Mesers. ExDEAN and Co.

MR. THOMAS THOMPSON, JUN., STOCK BROKER, 1, PALMERSTON BULLDINGS, BISHOPSGATE STREET, Mr. THOMPSON transacts business in every species of Stock Exchange and Mining securities.

Mr. TROMPSON affords reliable information to investors, and can give, when de-ired, a list of first-class Stocks and Shares, yielding 4 to 10 per cent. dividends

on present prices. Mr. Tnowpsox's weekly Circular may be had on application.

MESSES. PETER WATSON AND CO., 54, OLD BROAD STREET, LONDON, E.C. BUSINESS in STOCKS and SHARES.

RAILWAYS, BANKS, DIVIDEND LEAD MINES, &c. BANKERS: The ALLIANCE BANK (Limited).
A CIROULAR published MONTHLY. Single copy, 6d.; annually, 5s.

MR. ALFRED E. COOKE, STOCK AND SHARE DEALER, 76, OLD BROAD STREET, LONDON, E.C. ESTABLISHED 1853.

INVESTORS' GAZETTE, published every FRIDAY EVENING in time for post, sent on receipt of next. in time for post, sent on receipt of postage stamp.

AN INVALUABLE PUBLICATION.

Edited by— ALFRED E. COOKE, 76, OLD BROAD STREET, LONDON.

D'ERESBY MOUNTAIN.—These Shares were recommended by Mr. Cooke at £30. The price is now £80. They will STILL GO D'ERESBY CONSOLS. - Shares should be immediately purchased, and may be had on best terms.
RAILWAYS AND FOREIGN STOCKS.—Business done at closest
STOCK EXCHANGE prices.

ALFRED E. COOKE, 76, OLD BROAD STREET, LONDON.

ALFRED E. COOKE, 76, OLD BROAD STREET, LONDON.

MR. JAMES STOCKER, STOCK AND SHARE BROKER,
AND MINING SHARE DEALER,
2, CROWN COURT, THERAINEEDLE STREET, LONDON, E.C.

[Established 1848.]

RAILWAYS, FOREIGN BONDS, BANK, INSURANCE, TRAMWAY,
and all MISCELLANGUUS STOCKS and SHARES.

BRITISH AND FOREIGN MINES:—
Aberdaunant, 8s.
Chapel House, 23.
D'Eresby Consols.
D'Eresby Mountain, East Van, 263,
Grogwinion, 235,
Glenroy, 16s, 6d.
Great Laxey, 2194,
Grorsedd, 24 7s. 6d.
Great Laxey, 2194,
Grorsedd, 24 7s. 6d.
Leadhills, 2334,
Lianrwst, 42s.
Monydd Gorddu.
West Wys Valley, 2345,
North Laxey, 4s.
Wh. Grenville, 24.
Carn Brea, D'Eresby Mountain, Devon Consols, Dolecath, Mellanear, Minera,
South Molton Consols, Wheal Crebor, West Godolphin, Wheal Kitty.—
Alimada, Argentine, Chicago, Hornachos, Javali, Mailabar, South Aurora,
Tolima.
COLLIERIES.—Alltami, Ohapel House, New Sharlston, and Thorp's Gawber.

Tolima. COLLIERIES.—Alltami, Chapel House, New Shariston, and Thorp's Gawber. MISCELLANEOUS.—St. Bride's Welsh Slate, Credit Foncier, Hudson's Bay, Lawes Chemical, Native Guano, Tramway, and Aquarium Shares.

BANKERS: LONDON AND WESTMINSTER.

M. T. E. W. THO MAS, SHARE BROKER, 3, GREAT WINCHESTER STREET BUILDINGS, E.C.

Established 1837.

The following are the latest prices at which husiness could be done. Where the difference between the buying and selling price is wide transactions may be effected at an intermediate price:

Buyers, Bellers. 1

Buyers, Sellers.

Buyers, Bellers,	Buyers. Sellers
Carn Brea £ 45 £ 47	Panulcillo £ 1 £ 1
Chontales 10s 12s.6d.	Parys Mountain 7s.6d 10s.
D'Eresby Mountain 80 90	Pateley Bridge 21/ 3
Devon Great Consols 21/2 3	Penstruthal 3s.6d 4s.6d
Don Pedro 9s 10s.	Plynlimmon 48 68.
Eberhardt 534 614	Richmond 956 934
East Caradon 6s 8s.	Roman Gravels 814 814
East Van 616 636	Rookhope 17s 19s.
Exchequer Gold 28 38.6d.	South Caradon 75 80
Flagstaff 12s.6d 17s.6d.	Bouth Condurrow 11 11%
Frontino 1% 2	South Frances 2 21/2
Glenroy 16s 18s.	Tankerville 31/4 4
Gorsedd and Merllyn 4 436	Tincroft 11 11%
Great Laxey	Van 28 25
Great Laxey 18 19	West Chiverton 19 13
Hultafall 416	West Pateley Bridge 2 21
Herodsfoot 7 8	West Godolphin 78 134
Hingston 7s 9s.	West Tankerville 10s 12s.6d
Last Chance	West Wye Valley 3 31/2
Ladywell 17s 19s.	W. Grenville 31/2 31/4
Leadhills 334 4	Wheal Jane 1 114
Marke Valley 10s12s. 6d.	Wheal Kitty 11/4 21/4
North Laxey 3s. 6d 4s. 6d.	Wye Valley 11/2 2
New Quebrada 11/2 11/4	Yorke Peninsula 5s 6s.
New Zealand Kapanga 10s 12s. 6d	
Selections, founded on practical mini-	ng knowledge, made for the use of in-
vestors. An experience of 20 years B	usiness on hand in East Van, Roman
Gravels, Leadhills, Gorsedd and Merllyn,	Tyn-y-fron, and other Lead Mines.

MESSRS. W. REYNOLDS AND CO.,
STOCK AND SHARE DEALERS,
57, GRACECHURCH STREET, AND TALBOT COURT,
LONDON, E.C.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER,
No. 30, GREAT ST. HELEN'S, LONDON. E.C.
Capitalists should read the Feath Edition of "How and When to Invest," post
free One Shilling, and a small Pamphlet containing information regarding investments unaffected by war. The latter free by post on application.
SPECIAL BUSINESS in East Lovell, East Van, D'Eresby Mountain, Chapel
House Collery, Great Laxey, Minera, Richmond, Bodidris, and South Condurrow shares.

R. W. MARLBOROUGH, STOCK AND SHARE DEALER,
29, B18HOP8GATE STREET, LONDON, E.O. (Established 21 Years),
ean sell the following SHARBS, at prices annexed:—
75 Almada, 8s. 6d.
25 Birdespe Creek, 18s 3d
60 Chontaies, 11s. 3d.
50 Cambrian, £2 17s. 6d.
20 Chapel House, £3 10s.
26 Don Pedro, 1*s. 3d.
27 Event Core, £3
28 D'Eresby Cone, £12½
29 D'Eresby Cone, £12½
20 D'Eresby Cone, £12½
20 D'Eresby, £95.
25 East Van, £6 7s. 6d.
25 Eberhardt, £6 2s. 6d.
25 Eberhardt, £6 2s. 6d.
25 Eberhardt, £6 2s. 6d.
26 Flagstaff, 15s.
20 Party Mount, 10s. 3d.
26 Denstruthal, 5s. 3d.
26 Denstruthal, 5s. 3d.
27 Event Phillip, 10s. 3d.
28 Rollowed, £3 10s.
30 Late Chance, 18s. 3d.
30 N. Quebrada, £1 15s.
30 N. Quebrada, £1 15s.
30 Tyn-y-Fron
4 Van, £24 10s.
30 Tyn-y-Fron
4 Van, £24 10s.
50 Tyn-y-Fron
4 Van, £24 10s.
50 Tyn-y-Fron
4 Van, £24 10s.
50 Tyn-y-Fron
50 Tyn-y-

Shares bought and sold at net prices. Telegrams pr mptly attended to.
Specially Recommended for an early rise in price —Temple, Gorsedd and
Merilyn, Bodidris, Tyn-y-Fron, and Hultafall.

C H A R L E S T H O M A S, MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. HELEN'S, LONDON, E.C.

M R. A L F R E D T H O M A S ,
MINING AGENT, AND STOCK AND SHARE DEALER.
10, COLEMAN STREET, LONDON, E.C.
ALFRED THOMAS is a BUYER of—
100 Roman Gravels.
20 Tankerville.
20 Grogwinion.
50 Bodidris. SELLER of— 125 East Van. 40 Great Laxey. 25 Leadhills. 10 Llay Hall Colliery.

"INVESTMENTS AND SPECULATIONS" for 1878, Price Sixpence.

TO CAPITALISTS, SHAREHOLDERS, TRUSTEES, INVESTORS. S H A R P'S INVESTMENT CIRCULAR.

Read the APRIL Edition. Post free.

SAFE INVESTMENTS TO PAY 4 TO 6 AND 8 PER CENT.

Safe Guide" to Investors, containing reliable information upon all Stock Investments: also all the Safest Dividend Investments of the day. SAFE INVESTMENTS IN THE FOLLOWING-

English, Foreign Railways.
Preference, Debenture Stocks.
American Stocks and Bonds.
Bank, Financial, Shares.
Tramway, Telegraph Shares.
Continental Town Bonds.
Municipal Bonds.

Insurance, Gas, Waterworks.
Foreign Stocks, Bonds.
British, Foreign, Colonial Mines.
Tea and Land Shares.
Shipping, Dock Shares.
Indian, Colonial Stocks.
Miscellaneous Shares, &c., &c.

Market prices; Dividends upon outlay, and when payable; Reports, &c., &c. GOULD SHARP AND CO., STOCK AND SHARE BROKERS. 42, POULTRY, LONDON, E.C.—ESTABLISHED 1852 Bankers: London and Westminster, Lothbury, London, E.C.

MR. EDWARD ASHMEAD, 62, CORNHILL, LONDON, LONDON MINE AGENT, ACCOUNTANT, AND AUDITOR.

FERDINAND R. KIRK, STOCKBROKER,
Bankers: London and Westminster, and City Bank.
SPECIAL BUSINESS in Llanrwst, Alamillos, West Wye Valley, Caron, Devon Consols, Minera, Eberhardt, D'Eresby Mountain, and D'Eresby Consols.
COLLIERIES.—Thorp's Gawber, Newport Abercarn, New Sharlston, Alltami, Cardiff and Swansea, Chapel House, Pelsall.
MISCELLANEOUS.—General Credit, Royal Aquarlum, Yarmouth Aquarlum, Brighton Aquarlum, Hudson Bay, Otago Investment, Diamond Rock.
FOREIGN BONDS.—Egyptian Preference, ditto United, Columbian, Bolivian, Turkish 1871, ditto 1885. A large business for fortnightly settlements is being done in several of these.

MR. JOHN B. REYNOLDS, STOCK AND SHARE DEALER, 70 AND 71, BISHOPSGATE STREET WITHIN, LONDON, E.C. Established Twenty Years.

Bankers: London-City Rank. Established Twenty Avars.

Bankers: London—Oity Bank.

Cornwall—Messrs. Tweedy, Williams, and Co., Redruth.

WILLIAM GABBOTT, STOCK AND SHARE DEALER, s, DRAPER'S GARDENS, THROGMORTON STREET, LONDON. A List of Sound and Profitable Investments sent free on application. *** "Enquiry is one of the chief characteristics of the age we live in." See my letter on Great Laxey in the Supplement to this day's Journal.

M. R. M. F. DORMER, STOCK AND SHARE DEALER,
79, CORNHILL, LONDON, E.C.
Has business in 100 Birdseye Creek; 60 Blue Tent; 25 D'Eresby Consols; 20
East Van; 75 Fall Creek; 50 Hultafall; and 35 Pateley Bridge at close market

REMOVAL.

78, Old Broad street, to 9, DBAPER'S GARDENS, THROGMORTON STREET, LONDON, E.C.

MESSET, LONDON, E.C.

MESSERS. J. TAYLORAND CO.,

MINING ENGINEERS AND INSPECTORS,

86, LONDON WALL. LONDON, E.C.,

Have Agents in England, Scotland, Wales, and on the Continent.

Have Agents in England, Scotland, Wales, and on the Continent.

MESSRS. W. J. TALLENTIRE AND CO.,
STOCK BROKERS, AND DEALERS IN BANK, TRAMWAY,
MINING, AND MISCELLANEOUS SHARES,
20, CHANGE ALLEY, OORNHILL, LONDON, E.C.,
Transact business in Stock Exchange Securities and Mining Shares of every description, either for immediate cash or the usual bi-monthly settlements, and also afford advise personally or by letter to executors, trustees, capitalists, and investor of every class in the selection of Securities for safe and profitable investment, their experience of the markets, extending over a period of more than 17 year's together with special facilities for acquiring information, suabling them to act beneficially for clients.

They have established Corresponding Agencies in all the principal towns of the United Kingdom, and are prepared to deal in the various local Stocks and Shares at close prices. Orders per post or telegraph reseive prompt attention.

INVESTORS BHOULD APPLY for a copy of Messra, W. J. TALLENTIRE and O.s. Circular, EENT POST FERE. It contains valuable information on Foreign Stock, Railway, Mining, and General Investments.

TO INTENDING INVESTORS AND SHAREHOLDERS.

MESSRS. W. J. TALLENTIRE AND CO., 20, CHANGE ALLEY, CORNHILL, LONDON, E.C., have the following MINING SHARES OFFERS CAN BE MADE, OR PRICES WILL BE FORWARDED: -

N.B.—Some of the above will be sold on specially favourable terms to cash purchasers.

GROGWINION LEAD MINE (LIMITED),

MESSRS, H. HALFORD AND CO., STOCK AND SHARE BROKERS, of EXCHANGE CHAMBERS, CHANGE ALLEY, LOMBARD STREET, strongly recommend the above mine as one of the best and safest mining livestments. Dividends are paid half-yearly. The mine has lately very much improved in the deepest workings, and the sales for the present month are 150 tons of lead.

are 150 tons of lead.

WYE VALLEY, WEST WYE VALLEY, RED ROOK, AND SOUTH

CWMYSTWITH LEAD MINES.

These mines have all recently improved very much, and large sales of lead are
being made. Shares in all of them should be scoured at once.

Subscribed Capital E16,000 (all subscribed in a few days).

Subscribed Capital E16,000 (all subscribed in a few days).

This company is likely to prove one of the greatest successes of modern times. The mine is now in full work, good Reserves of Lead laid open, and sales will commence as soon as the new dressing machinery is completed. The shares are, we consider, likely to greatly increase in value in a very short time.

Now ready, post free for Three Stamps.

PACTS AND FIGURES.—A Survey and Comparison of all Investments, and showing the great security, profit, and permanence of Leid Mines over those of Tin and Copper; with full particulars of a Lead Mine now yielding a good profit, and certain to rise five or six times its present price. By John R. Piks, Crown Chambers, Threadneedle-street, Lendon, E.C.

TOCOMOTIVE TANK ENGINES, and in finish equal to the MAIN LINE LOCOMOTIVES, FOR SALE, on Oash or Deferred Payments.—Apply to—

FOX, WALKER, AND CO., ATLAS WORKS, BRISTOL.

Lossiemouth Lead Mining Company

INCORPORATED UNDER THE COMPANIES ACTS, 1862 AND 1867. CAPITAL £30,000, IN 6000 SHARES OF £5 EACH,

Of which 5000 are Ordinary, and 1000 B or Deferred Shares, subject to the conditions hereinafter mentioned.

£1 payable on application, £1 on allotment, and £3 in instalments of £1 each, at intervals of not less than three months.

Interest at the rate of 5 per cent. per annum allowed on all sums prepaid.

In the event of no allotment being made the deposits will be returned without deduction

DIRECTORS.

HENRY P. HARRIS, Esq., 56, Mansell-street, E.C., and Chase House, Hadley.

JAMES HENDREY, Esq., Whitehall Club, Westminster, and The Hollies, Crystal Palace Park, Sydendam.

JAMES L. SHUTER, Esq., Chamberlain's Wharf, Tooley-street, E.C., and Lawn House, Holloway

GEORGE TAMPLIN, Esq., 159, Fenchurch-street, E.C., and 12, Manchester-square, W.

JULIAN H. TOLME, Esq., 1, Victoria-street, Westminster, and 17, Dawson-place, Bayswater, W.

GENERAL MANAGER-LESLIE C. HILL, A.Inst.C.E., F.C.S., Civil and Mining Engineer. BROKERS-JOHN HILL AND SONS, Bartholomew House, Bartholomew-lane, London, E.C.

BANKERS-IMPERIAL BANK, Lothbury, E.C. SOLICITORS—JAMES BREND BATTEN, 32. Great George-street, Westminster, FORSYTH AND STEWART, Royal Bank Buildings, Elgin, N.B. SECRETARY—CHARLES CHAMBERS.

OFFICES,-66, CLEMENT'S HOUSE, CLEMENT'S LANE, LONDON, E.C.

This company is formed to purchase from Mr. L. C. Hill the lease of the Stot-eld Lead Mining Property, situated near Lossiemouth, in the county of Elgin, .B., together with all interest in the shaft and other workings, lead ore, plant, &c., ow on the property, and to continue to develope and work the lead mines and des thereon.

russ company is formed to purchase from Air. L. C. Hill the lease of the 81ch field Lead Mining Property, situated near Lossiemouth, in the county of Eigin, N.B., together with all interest in the shaft and other workings, lead ore, plant, &c., now on the property, and to continue to develope and work the lead mines and iodes thereon.

The property is now held on a lease for a period of 19 years from the 14th November, 1875, which lease is to be surrendered, and the proprietor has agreed to grant a new lease to the vendor and others for a term of 21 years from the 14th day of November, 1877, according to the terms of a draft which has been agreed upon.

A copy of this draft lease may be in-pected as below, in which it will be seen that full power is granted to work all minerals, and to use the surface for all legitimate mining purposes, subject to the usual conditions, on payment of a royalty of one-sixteenth of all minerals raised and sold, together with a dead rent of £1 per than 18 to that this lease includes the proprietor's rights to all minerals under the Moray Firth below high water mark adjacent to the other minerals.

The lotes run through waste uncultivated lands near the sea shore which are of little value, so that the surface damage will be very small.

Reports have been made on this property by competent mining engineers, from which it will be seen that—

The property is crossed by two powerful, almost vertical lodes, one running north cast and south-west, and the other east and west, which intersect each other near the staft (see plun!); the former has been traced ore bearing for a distance of 77 fins. east and 230 fms. west of the shaft.

There is a regular course of ore running along the south wall, which is cetimated to be worth 2 to 3 tons of lead per fathom, and also an immense deposit is found, probably caused by the junction of the wolongs, the continuing good ore throughout, but is stated to be much larger.

There is a regular course of ore running along the south wall, which is cetimated

can be sold for smelting, as vessels bringing coals from that port return at present in ballast.

Making full allowance for all expenses, including royalty, it is estimated that in permanent working the dressed ore can be delivered f.o.b. at cost not exceeding £7 per ton, and that this will be worth at the present low price (say) £11 per ton. Even taking the low estimate of 150 tons per month, this will give a profit of £7200 per annum, which would allow of a dividend of at least 20 per cent. on the total capital.

But as the richest deposits are always found at the junction of two lodes it is expected that when the main deposit is reached this output will be doubled.

Lead mining is well known to be the safest of all metal mining, and as it is considered certain that such powerful lodes as those found on this property will continue to a great depth, this undertaking is believed to bear as little risk as is possible in a mining enterprice, nevertheless it is intended to proceed with the utmost caution, and to sanction expenditure only for the development of the mine until further outlay is absolutely warranted by ore raised or in sight.

It is estimated that the sum of £3 per share will be sufficient to develope the mines and erect dressing floors, and it is not intended to make any further call until the mine has been proved, and then only in the event of further capital being required to provide pumping and hoisting machinery, tramways, &c., and to enlarge the dreasing floors when the main deposit of ore has been reached.

The purchase price of the property is £8000 in cash, 1000 fully paid-up ordinary shares, and 1000 B or deferred shares, which bear no interest unless the net profits amount to £8000 per annum.

The only contracts entered into are—

1st.—That between Lealie Crassweller Hill, of the one part, and James Brend Batten, on behalf of the Lossiemouth Lead Mining Company (Limited), of the other part, and dated the 23rd day of January, 1878.

A copy of the proposed lease, and of the centracts and rep

FORM OF APPLICATION.

To the Directors of the Lossiemouth Lead Mining Company (Limited).

To the Directors of the Lossiemouth Lead Mining Company (Limited).

GENTLEMEN,—Having paid to your bankers the sum of £ , being £1 per share, on application for shares in the above company, I request you to allot me that number of shares, and I hereby agree to accept the same or any smaller number that may be allotted to me, and to pay the balance due thereon according to the terms of the prospectus.

Name in full

Address.

Profession, if any

Signature.

Date

1878.

The Pniscedwyn Company, Limited.

REGISTERED UNDER THE COMPANIES ACTS, 1862 AND 1867.

CAPITAL £60,000, IN 6000 SHARES OF £10 EACH.

£2 per share payable on application; £3 per share on allotment, and the remaining £5 per share in two instalments of £2 10s. each, at two and four months from allotment, when all liabilities will cease. DIRECTORS.

GEORGE GOWLAND. Esq. W. H. LETHBRIDGE, Esq.

JOHN ROMANES, Esq. P. W. SYDENHAM ROSS, Esq.

NICHOLAS SADLER, Esq. (With power to add to their number).

BANKERS-THE IMPERIAL BANK (Limited), Lothbury, London, E.C., SOLICITOR—ALEX. KERLY, Esq., Great Winchester-street, London, E.C. AGENT—Messrs. LIVINGSTON, RICHARDS, AND BEAUMONT, Swansea.

SECRETARY AND OFFICES.

W. H. HARRISON, Esq., 1, PALMERSTON BUILDINGS, LONDON, E.C.

This company is formed for the purpose of purchasing and working the well-known Yniscedwyn and Abererave Collieries, as well as the Yniscedwyn Steel and Iron Works, situate at Yniscedwyn, about 13 miles from the port of Swansea. The works are connected with the Midland, the Great Western, and London and North Western Railway (having their own branch railways and sidings, all of the standard guage, capable of accommodating at least 1000 railway trucks at one time), and are thus in direct communication with all parts of the kingdom. This extensive property (over 3500 acres of minerals, about 400 acres of surface, including several farms, a number of cottages, a mausion and agents' houses) is held upon exceptionally favourable terms, under various leases, particulars of which may be seen at the offices of the solicitor.

There are four large colleries, fine iron and steel works, together with 'a goodsized foundry, and altogether a most efficient plant.

The Four Collieries are all extensive, and contain six seams of the purest anthracite coal, with an aggregate thickness of a bout 28 ft., and are estimated to contain 37,000,000 tons of workable coal. One of the seams (the celebrated Big Vein) is over 9 ft. thick. There are also veins of ironstone and fire-clay, limestone, &c., all of which are elements of considerable value. The colleries are complete with the most costly plant, engines, boiler power—in fact, no outlay has been spared to bring the whole into the highest degree of perfection. From the pits an aggregate of at least 2000 tons of coal may be produced daily.

The Iron Works are among the cidest, if not actually the oldest established in the kingdom, and everywhere well known as the Yniscedwyn Anthractic Iron Works. They consist of two blast furnaces, hot blast stoves, and complete plant. The furnaces which were recently fitted and remodelled on the most approved principles, have been worked most successfully, producing a larger annual yield of iron per furnace than has been obtained by any other furnac

15,000 tons of coal, at 1s. per ton ... £ 7,500 0 0 15,000 tons of iron, at 6s. 2d. per con ... 4,131 17 0

This company is formed for the purpose of purchasing and working the well-known Ynincedwyn and Abercrave Collieries, as well as the Ynincedwyn Steel and Iron Works, studied at Miscockivy, about 18 miles from the port of Swarses. The Colling of the Colling of the State of the Works and Abercrave Collieries, as well as the Ynincedwyn Steel and Iron Works, studied at Miscockiva, about 18 miles from the port of Swarses. The Abercrave Collieries, and the State of Swarses of the Swarses

Lectures on Bractical Mining in Germany.

CLAUSTHAL MINING SCHOOL NOTES-No. LXIX.

BY J. CLARK JEFFERSON, A.R.S.M., WH. SC., Certificated Mining Engineer.

(Formerly Student at the Royal Bergakademie, Clausthal), [The Author reserves the right of reproduction.] SECTION V.

[A great pressure on our space has compelled us to postpone the publication of the Lectures this week. They will be resumed in next Saturday's Journa!.]

MODERN BLASTING EXPLOSIVES.

MODERN BLASTING EXPLOSIVES.

At no period in the history of the civilised world has the adage "Time is money" been more forcibly illustrated than in the actual demand by the mining community for the strongest explosives—or, in other words, for the explosive which will produce the greatest effect with the smallest labour or time employed in boring holes to receive the same, or in tamping. Again, the military engineer keeps himself au fait of all new destructive agents which, under the smallest weight, will do the most mischief, the most essential point in using explosives in the field being to place the charge on the proper spot at the proper time, which means quick carriage and hence small weight. Chemistry and engineering have not been slow to respond to the demand, and amongst the host of explosives which have been brought forward at different times there are some two or three which have attained a decided pre-eminence, each in its way. we refer to dynamite, tonite, and compressed guncotton.

The literature of modern explosives exists only in the shape of

The literature of modern explosives exists only in the shape of papers read at institutions, and pamphlets from scientific specialist. We will endeavour in the following lines to gather a few notes which we believe may be of some value both to the scientific and the practical man. It is not our intention to dwell at length on what might be called the earlier history of the explosives under consideration. We will only call to mind the points of interest which have marked their progress towards practical utility. It is well known that guncotton was first introduced to the public by Schonbein in 1846. Great things were expected from the discovery, and yet in a few years, after a brief but eventful career, guncotton was relegated to the laboratory shelf, and amongst the sufficient causes for such a proceeding we may mention the inability of the makers to produce a stable article, and also the enormous bulk occupied by a charge of the explosive, as well as its inherent property makers to produce a stable article, and also the enormous bulk occupied by a charge of the explosive, as well as its inherent property of disengaging upon explosion a large amount of carbonic oxide gas, which, in close workings, is not only objectionable on account of health, but absolutely dangerous as fire damp. Ways and means as ingenious as numerous were tried in divers countries to master this promising but crude invention, but the only improvement, partially successful, was for a long time obtained in nitrating the guncotton with saltpetre. This material reduced the carbonic oxide and added considerably to the strength of the guncotton, but the fumes resulting must have been very inconvenient, as the carbonata of resulting must have been very inconvenient, as the carbonate of potassa produced very readily remains in suspension in the atmosphere for a long time, not to mention the almost inevitable presence

resulting must have been very inconvenient, as the carbonate of potassa produced very readily remains in suspension in the atmosphere for a long time, not to mention the almost inevitable presence of cyanide of potassium, but the most potent objection to its use was its liability to explode spontaneously.

Things were in this condition, and ordinary gunpowder continued to reign supreme, when Sobrero somewhat before 1860 introduced his nitroglycerine. New hopes were raised, and as a consequence money, labour, and ingenuity were devoted to the work, but nitroglycerine, like guncotton and, indeed, all great inventions, had a hard fight before it could inspire confidence in the public, for the material as then made was very unstable, and even when purchemically stable, if we may use that expression—it was liable to disruption from physical causes. One of these, still unexplained, happens during the passage of the frozen nitroglycerine from the solid to the liquid state, as if the crystals were suddenly broken by a too sudden application of heat, as in the well-known decrepitation of common salt; a similar theory has been used to explain explosions which sometimes occur with fulminate of mercury when this substance is put to dry, which, although quite pure, may explode a temperature far below its normal exploding point.

Now we come to one of the important epochs of invention—the discovery of dynamite by Mr. Alfred Nobel. Dynamite is nitroglycerine mixed with an earthy absorbent, the result being a plastic instead of a liquid substance, and therefore more manageable, the tendency of the nitroglycerine to spontaneous explosion in thawing being considerably reduced by reason of the modification in the structure of the compound. The nitroglycerine used in the manifacture of dynamite can now be made quite pure, so the enormous consumption of the produce is justified in the absence of any competing explosive. Let us hope that Mr. Nobel will by his intended new admixture entirely destroy the causes which bring about the t

e are splendid achievements, and the next step-nitrated pulped guncotton—was actually making its appearance when oc-curred the Stowmarket calamity, which drove all confidence away for a time. It was then proposed to use the pulped and compressed guncotton in the wet state, as it was found that it could be exploded in this condition by using a strong primer of dry guncotton; indeed, large quantities are now being employed under this condition, but of course all thoughts of using a nitrate with it was abanduned. large quantities are now being employed under this condition, but of course all thoughts of using a nitrate with it was abandoned, as saltpetre does not answer in conjunction with wet guncotton. This was very regretable, as it is well known that by nitrating guncotton its strength, as measured by the best energy it can produce, is increased fully 30 per cent., and, moreover, no carbonic oxide is produced—a very important item in ill-ventilated workings. Unintrated and wet compressed guncotton is mainly used for military and naval purposes, on account of its safety over dynamite and its remaining unaltered by climatic changes; at all events, it is relatively easier to keep it from freezing. Miners, however, who buy explosives for profitable purposes, will not use it in any quantity. There remained, therefore, ample room for further progress in dry nitrated guncotton compressed to the smallest bulk. This has been obtained in an explosive called tonite, manufactured by the Cotton Powder Company of Faversham. The remarkable results obtained Powder Company of Faversham. The remarkable results obtained by the officials of that company in producing this explosive renders unnecessary any apology on our part for explaining at some length what these results are, and how much the mining community, and, indeed, the nation, may be benefited by their labours. About 1873 the Cotton Powder Company, under a somewhat different name, commenced operations, their object being, amongst other things, to produce nitrated guncotton according to the terms of their license, and, commencing so soon after the great catastrophe at Stowmarket, it required no areal arounts of coverage to attempt the manufacture it required no small amount of courage to attempt the manufacture of apparently a similar explosive, although it offered a most promising reward to success.

Tonite or cotton powder is now well known to all mining en-gineers under the shape of a dense dry cartridge; it is generally

* Being Notes on a Course of Lectures on Mining, delivered by Herr Berguth, Dr. Von GRODDECK, Director of the Royal Bergakademie, Clausthal, The Hart-Worth Germany.

APRI waterproduced the dense space as cotton. manufact stance, we sulphurice that me of that m easily eli glycerine the origin party im long kno

powerful tical hand at Favers gerous in whether in opera has satis process, British be made From step—cl dismiss dising a quantity best nits under th with gu strontia, extent s success f are very

moreove after ma facie it i base in a weight,

up under than by pears ju of tonite to 50 pe strength it might the natio sidering for wet for serio We ha has been portant as those These ha thermod irrespec and plas the plea cally se tonite, a

spring o

than Mr a great o

North C not so lo is with means r Spanish the quar to supp. could predirection This is desired. pose of phosph enough to pay. every to that it less qua to attai a steel it is the facture: ingredi semer s formed remove it has l silicon exceed ters of

with g can sc quentl But eviden on the years :

toughn which

using confid was si than t culty

XIX.

notes ic and th on under storest

de and

atmos

tinue

t nitro

explo

on—the s nitroplastic ble, the hawing in the manu

out the

gle for er sub-l mind,

the way n of its reby re-tton by hat the tas Mr.

itrated

indeed, ion, but ned, as n. This

xide is nilitary

uantity.

in dry
nas been
Cotton
btained
renders
length

ty, and, ut 1873 t name, ings, to

license, market, ifacture ost pro-

ing en-

waterproofed, and is not altered by any conditions of temperature. The density of tonite is about 1.50—that is, it goes into the same space as dynamite, and in about two-thirds that of compressed guncotton. The base of tonite being guncotton the first care of the manufacturers was to devise practical means of purifying that substance, which being produced of ordinary cotton steeped in mixed sulphuric and nitric acids contains in its crude state some portion of that mixture, with other nitro compounds. The free acids are easily eliminated by washing with water, with or without alkaline addition, but the nitro compound impurities—nitro-starch, nitro-glycerine, and other products of the resins, sugar, and impurities of the original cotton—are not so easily got rid of, being insoluble, and pastly imprisoned in the capillaries of the cotton fibre. It had been long known—the chemical student that inferior nitro compounds are partly destroyed—holling water, and that ammonia is a very powerful reducing agent of these—mounds. It only needed practical hands to unite the processes. As the—holling water are processed appring yowerful reducing agent of these—mounds. It only needed practical hands to unite the processes. As the —holling water and that ammonia is a very powerful reducing agent of these—mounds. It only needed practical hands to unite the processes. As the —holling plant now stands at Faversham any quality of guncotton can be purifice—so any whether the fibre is very long or very short. This process has been in operation for about five years with perfect success, and we understand that it is partly followed at the Government works at Waltham Abbey. It can at all events be assumed that Prof. Abel has satisfied his mind about the value of such washing or boiling process, for it will be remembered that at the last meeting of the British Association, at Portsmouth, he said that guncotton could now be made quite reliable.

From pure guncotton to dry nitrated powder there is on'y one

has satisfied its limit of the purposes, for it will be remembered that at the last meeting of the process, for it will be remembered that at the last meeting of the process, for it will be remembered that at the last meeting of the British Association, at Portsmouth, he said that guncotton could now be made quite reliable.

From pure guncotton to dry nitrated powder there is on'y one step—choose the proper nitrate. Before settling this point we may dismise chlorate of potash, the most powerful of all available oxidising agents. It is known that guncotton used with the proper quantity of chlorate of potash is superior as a blasting agent to the best nitroglycerine, but, like this substance, it is liable to explode under the slightest rough usage. The available nitrates for mixing with guncotton are the nitrates of ammonia, potassa, soda, baryta, strontia, &c. The nitrates of ammonia, soda, and to a certain extent strontia, are deliquescent, and have never been used with any success for a length of time; all these nitrates except that of baryta are very soluble, and thereby interfere with the manufacture, and, moreover, give very disagreeable fumes in the mines. In short, after many trials nitrate of baryta was definitely chosen. Prima facile it is the best suited to the purpose, as containing more earthy base in a given weight, but if we bear in mind that in mining the space occupied by the explosive is more an object than its actual weight, and as it is possible by the use of nitrate of baryta to lock up under the very smallest possible space a larger amount of energy than by the employment of any other nitrate, the choice then appears justified. There is another point to be considered in favour of tonite—its economy of manufacture. Tonite can be made at 40 to 50 per cent. less cost than guncotton, and of 30 per cent. greater strength. In these times of heavy military and naval expenditure it might be well worth considering what would be the economy to the nation in substituting tonite for ordinary wet guncott

THE MANUFACTURE OF IRON AND STEEL.

THE MANUFACTURE OF IRON AND STEEL.

No man better deserves the warmest thanks of our ironmasters than Mr. I. LOTHIAN BELL, seeing that for years past he has devoted a great deal of time to finding out the best means for producing pig with the smallest consumption of fuel. In conjunction with other North Country makers, he has succeeded, for he tells us that where not so long since 70 cwts. of coal were required to make I ton of pig, the same is now accomplished with from 41 to 45 cwts. That is with respect to the Middlesborough ironstone, which is by no means rich, giving only about 30 per cent. of metallic iron, whilst for Spanish, and other cres yielding 50 per cent. of iron and upwards, the quantity of coal for smelting would be probably 5 cwts. per ton of pig less. This great economy in fuel in the manufacture of iron has been of the greatest benefit to the country, as it has enabled us to supply even continental makers with pig at a less price than they could produce it. But Mr. Bell has gone further, and in another direction has endeavoured to produce iron from Cleveland stone so clear of phosphorus that it can be readily converted into Bessemer. This is the great difficulty to be overcome in the conversion of such ores into steel fit for rolling, and Mr. Bell appears to have gone into it most thoroughly, and if the results are not all that could be desired, he is certainly on the high road to success. For the purpose of freeing the pig from its impurity, Mr. Bell washes out the phosphorus by means of oxide of iron, and the question naturally enough arose as to whether or not the process would be too costly to pay. It appears that about 10 cwts. of oxide of iron is used with every ton of pig, and if that would cost 10s, then it was considered that it would searcely pay. But it is quite probable that a much less quantity of oxide of iron may be found in future manipulation to attain the desired results. One of the most important points to be realised is as to the quantity of phosphorus that could be left i

with greater certainty of succeeding. He would also be able to define accurately the different proportions of the various ingredients that are necessary for bringing out a certain quality of steel, which can scarcely be said to be the case at present, although we are frequently told as to the elasticity and resistance of steel by testing.

But that steel is about to undergo another revolution is pretty evident, for at the recent meeting of the Iron and Steel Institute, on the discussion of Mr. Bell's paper, Mr. Snellus said that six years ago he took out a patent for converting Cleveland pig into steel, and in reducing the phosphorus in it to under 0:1 per cent., using limestone for the lining of his furnace. He said he had such confidence in his patent that he intended renewing it, although it was six years old. This process no doubt would be less expensive than that of the oxide of iron, but there appears to be some difficulty in the carrying out of the process with respect to the furnace; but, if all other details can be successfully carried out, no question but what that will be easily overcome. But a still greater surprise was instore for the members of the Institute by Mr. Sidney Thomas declaring that he had succeeded in entirely removing phosphorus by the Bessemer converter. This was certainly a startling announce-

ment to make, and equally so was the statement that he had the results in his pocket of more than 100 analyses of different experiments for the very small quantity of 6 lbs. up to 10 cwts., and all the results carried out the theory with which he originally started. In the worst results 20 per cent. of phosphorus was removed, and in the best 99.9. This latter result one would think would be sufficient for anything, and we feel sure the particulars will be looked forward to with much interest by our ironmasters and Bessemer makers. We have, however, three distinct processes before us by which the phosphorus can be eliminated from Cleveland iron, and the latter converted into Bessemer steel. As to the comparative merits of each process there is not sufficient data before us to give an opinion, seeing that each proposal may be said as yet to be in only an embryo state. But before long it is to be hoped detailed results of further experiments will be given, when the public will be in a position to judge of their respective merits. In the meantime we understand Mr. Bell will proceed with his experiments, and without ignoring the claims of others in the same field to every consideration, we believe we only echot the feeling of all persons con-

GEOLOGICAL SOLDEN OF LONDON.

April 3.—Henry Clipton Sordy, F.R.S. (President), in the chair.

Rev. Albert Augustus Harland, M.A., F.S.A., Harefield Vicarage, Middlesex; and Thomas William Shore, Hartley Institution, Southampton, were elected Fellows of the Society.—Charles Preller Sheibner, Ph.D. (Leipzig), A.I.C.E., Charles street, Grosvenor-square, was proposed as a Fellow of the Society.—Charles Preller Sheibner, Ph.D. (Leipzig), A.I.C.E., Charles street, Grosvenor-square, was proposed as a Fellow of the Society.—The following communications were read:—

1.—"On an unconformable break at the base of the Cambrian Rocks near Llanberis," by George Maw, F.L.S., F.G.S.

2.—"On the so-called Greenstones of Central and Eastern Cornwall," by J. Arthur Phillips, F.G.S. During the discussion Prof. Ramsay expressed his gratification at the thorough-going nature of the author's researches, and was especially pleased that Mr. Phillips had found that many of the rocks exhibited such close resemblance as to justify the use of the term "greenstones."

3.—"The Recession of the Falls of St. Anthony," by N. H. Winchell communicated by J. Geikie, F.R.S., F.G.S.

The next meeting of the society will be held on April 17, when the following communications will be read:—1. "On the Geological results of the Polar Expedition under Admiral Sir George Nares, F.R.S.," by Capt. H. W. Feilden, R.A., F.G.S., and C. E. De Rance, F.G.S.—2. "On the Palæontological results of the Polar Expedition under Admiral Sir George Nares, F.R.S.," by Capt. H. W. Feilden, R.A., F.G.S., and R. Etheridge, F.R.S., F.G.S.—3. "The contemporaneous appearance of the Teesdale Whin Sill," by C. T. Clough, F.G.S.

THE YORKSHIRE COLLEGE OF SCIENCE.

THE YORKSHIRE COLLEGE OF SCIENCE.

The great want of some such course of instruction as that offered at the Yorkshire College of Science was frequently asserted as a reason for the establishment of the institution, and the results have fully confirmed that view, for it appeared at the fourth meeting of the Students' Class, held at the College on Monday evening, that no less than 26 had joined it, and what is still more gratifying, is that these are of various ages and positions. The reason of this success is not difficult to discover—the executive have been careful to provide precisely the kind of instruction which is required by those likely to attend the classes. By way of example, reference may be made to the syllabus of Mr. LUPTON'S course of lectures in the Department of Coal Mining, which is maintained by the Worshipful the Drapers' Company of the City of London. Through the liberality of this guild to secure the services as instructor of a mining engineer and colliery manager of great intelligence—Mr. ARNOLD LUPTON, F.G.S., M.I.C.E.—and his present course of lectures embraces the "Theory and Practice of Coal Mining, Mining Engineering, and Colliery Management."

The thoroughly systematic arrangement of the syllabus cannot be too highly commended. Commencing with the discovery and preliminary explorations of a coal field, the lecturer explains the various modes of boring by hand, by steam machinery, rigid rods, the rope system, the diamond drill, and so on. The value of coal seams, workable and unworkable, is also explained. Next comes the method of winning a coal field, in connection with which levels.

rope system, the diamond drill, and so on. The value of coal seams, workable and unworkable, is also explained. Next comes the method of winning a coal field, in connection with which levels, inclines, shafts, &c., are described, the mode of choosing the situation of shafts, the nature and size of works, and how to estimate the cost of works, being carefully explained. With regard to shaft sinking, the student will be given full information on dry sinking, wet sinking, the sinking set of pumps, timbering, walling, tubbing of cast-iron, cement walling, and sinking machinery. Nor are the difficulties occasionally met with neglected, the next subject treated of being sinking through quicksand, the method of pile driving, by brick and iron cylinders, the pneumatic process, the Kind-Chaudron system, and sinking through the New Red Sandstone being in turn referred to.

The coal field having been discovered, and the shafts sunk, the first step will necessarily be to lay out the pit. This will be fully explained by Mr. Lupton in dealing, with tunnels and cross-measure drifts, systems of working coal, long-wall, modified long-wall, pillar

explained by Mr. LUPTON in dealing, with tunnels and cross-measure drifts, systems of working coal, long-wall, modified long-wall, pillar and stall, &c. That the student may be equally competent to fulfil his duties wherever he may be employed, careful attention will be given to the various methods of working pursued in the Midland Counties, Northern Counties, Lancashire, South Wales, North Wales, France, Belgium, and Germany. In connection with ventilation the principles and practice are to be explained, the coursing and splitting of air currents, and so on; the effect of changes of weather, and the use and abuse of the barometer being specially mentioned. The gases found in coal mines, and the temperature of coal mines affected by depth and by working, are described, and then colliery management generally is very fully treated of. Safety and economy are first considered in this connection, and then the Act of Parliament regulating mines, general and special rules, and additional rules and precautions, are explained. To this part of his syllabus Mr. Lupron very properly attaches much importance, and no doubt many will benefit from his observations on discipline and the general principles that should regulate the dealings of a colliery manager with his men, his employers, and in commercial transactions. He likewise explains colliery accounts and cost-sheets, and surveying and levelling underground.

likewise explains colliery accounts and cost-sheets, and surveying and levelling underground.

The remaining portion of the course may be regarded as referring more particularly to the raising of coal, and is to be devoted to the questions of winding-engines, pumping-engines, underground haulage, air-compressing engines, coal-cutting machinery, safety-lamps and naked lights, trams and cages, signals, surface work, and boilers and fittings. It will thus be seen that the course is very complete, whilst the price is extremely moderate—the cost of attending the entire course, including the college entrance fee, being only 22. 9s. To candidates preparing for the examinations for certificates of competency such a course must be invaluable, and the executive of the et he invaluable and the executive of petency such a course must be invaluable, and the capacity of College are certainly entitled to warm congratulations for the exertions they have made.

STEAM-BOILER EXPLOSIONS. - Believing that steam-boiler explo-STEAM-BOILER EXPLOSIONS,—Believing that steam-boiler explosions may in the majority of cases be prevented by competent inspection, the Manchester Steam Users' Association are desirous that the Government should make such inspection compulsory. In furtherance of this object the President, Mr. Hugh Mason, has addressed a letter to the Home Secretary and each member of the House of Commons. Having pointed to the loss of life occasioned by boiler explosions, and the fact that the result of investigations made under the direction of the Association has been to show that competent inspection would in most cases prevent an explosion, Mr. Mason contends that it is the duty of the Government to interfere in the interests of the public safety, and to put some judicious pressure on steam users, so as to stimulate them to the use of due precaution. While thanking Mr. Cross for the interest he has evinced by sending on two or three occasions a legal or scientific assessor to assist the coroner at his inquisitions consequent on boiler explosions, the Association cannot but think any attempts to attain satisfactory investigations with regard to boiler explasions by coroners' juries will prove useless, and, therefore, they urge that such investigations should be held by some other court more competent to deal with scientific questions. The letter continues:—"Should it be thought desirable that governmental action should be car-

ried a step further, and that it should be enacted that no boller should be allowed to work unless annually examined and certificated, the Association would be prepared to submit for consideration a measure to that effect, which would secure the safety of the public without harrassing the steam user. The committee entertain a most wholesome dread of governmental interference with the management of private concerns, and being themselves large users of steam-power, would purpose no measure for adoption that would prove injurious to boiler owners. The course, however, the Association recommends for immediate adoption is not a system of compulsory inspection, but the institution of a searching investigation by a duly competent court in the event of every explosion, whether fatal or not. It is hoped that such investigations would of themselves stimulate steam users to an exercise of due precaution, while should this unfortunately prove not to be the case, the information accumulated by such investigations would afford a safe basis for further legislative enactment."

Meetings of Lublic Companies.

BLUE TENT CONSOLIDATED HYDRAULIC GOLD MINES OF CALIFORNIA.

The annual meeting of shareholders was held at the offices of the company, Austinifiars, on Theaday, Mr. Mr. J. Havitwo Courtes and the notice calling the meeting; the directors' report was taken as read. The company in the company

elected.
The CHAIRMAN proposed that a vote of thanks be given to Mr. T. Price, general manager, and Mr. Hughes, the superintendent, for the zeal and ability they have displayed in carrying out the affairs of the company during the past year.—This was carried unanimously.

The meeting was then made special, and the resolution referred to in the notice calling the meeting was passed.
Cordial votes of thanks were passed to the Chairman and staff, and the meeting broke up.

PRINCE OF WALES MINING COMPANY.

A general meeting of the shareholders was held at the offices of the company, Gracechurch-street, yesterday (Friday),

Mr J. Y. Warson in the chair.

The notice calling the meeting was read by C. B. Parry, the

The notice calling the meeting was read by C. B. Parry, the secretary.

The following report of the mining captain was also read:—

April 11.—Since your last general meeting we have erected a horse-whim on Vigar's shaft, and have cased, divided, and put in ladder road in the same shaft from surface to the deep adit, a depth of 38 fms. 1n'timbering the shaft we found it full of stuff to within 5 fms. of the shallow, and have 15 fms. above the deep adit, which we have since cleared, and have driven the deep adit west on the Wheal Brothers or Silver Lode, 12 fms. 4 ft., on a lode varying from 12 to 18 in in width, and at times yielding a little silver, but of little or no value. The lode in the present end is 18 in. wide, composed of quartz, capel, mundic, and carbonate of iron. We have driven the shallow adit (which is 18 fms. below surface, west of shaft 24 fms. 3 ft. When we commenced to drive the lode was small, but it soon began to open out wider, and when we had driven 5½ fms. it was 3 ft. wide, a promising looking lode, but at that point we intersected a small cross-course, and after driving through it the lode improved, and for a few days we broke some moderate quality silver ore, and a few stones contained a little wire silver, but the improvement did not continue long - only 3 or 4 ft. driving—since which it has only yielded occasional stones of silver, and in the present end to lode is small and poor, and as this end is shallow, being only 18 fms. below surface at Vigar's shaft, and as the surface is disping going west, it will gradually be getting shallower. I would advise the driving of this adit to be suspended, but the deep adit I would recommend to be driven by six men, so as to get parallel with the best silver-bearing ground in Wheal Newton as soon as possible, where I think there is a fair chance of making discoveries. If operations were confined to driving the deep adit would recommend.

get parallet with the best surer-rectives are of making discoveries. If operations sible, where I think there is a fair chance of making discoveries. If operations were confined to driving the deep adit west by six men I estimate the cost would be about 40% per month.

A SHAREHOLDER saked whether all the calls had been paid.

Mr. PAREY said that 260% were outstanding on the last call.

The CHAREMAS said it was resolved some time since that Vigar's shaft should be cleared, and the sliver lode has been proved below. That had been a longer and more expensive process than was contemplated, but the sliver lode had been driven upon at the bottom of Vigar's shaft, and the real question now was whether the shareholders would go on with the work, or whether they would wind up.

In answer to a further question, Mr. PAREY said the liabilities over assets were 336%.

In answer to a further question, Mr. PARRY said the liabilities over assets were 336.

Mr. Phillips pointed out that there was a prospective value in the mine, and there was also the plant and machinery.

The Charrama asked Mr. Parry how many paying shares there were?

Mr. Parry said there were about 5000 paying shares.

The Charrama said the real question was whether they would wind up at once, or whether they would go on spending 40. a month for three months to see how the mine turned out.

Mr. Spence expressed himself in favour of going on for another three months.

A BHARRHOLDER said that the labour cost was excessive.

The CHAIRMAN pointed out that the making of the new shaft was a very expensive work, as there were was the cost of material, as well as labour cost.

In answer to a question, Mr. Parry said he scarcely thought the machinery was worth 1000!

oncern, was worth 1000;
The CHAIRMAX said the question to consider was this—if they decided to go on
three moaths at 400, per month, what call would be required?——Mr. PARRY:
t would not be safe to go on with a less call than 2s, per share.
Mr. KEELEY was inclined to think that it would be better to wind-up up the

Mr. Kerley was inclined to think that it would be better to wind-up up the company as once.

A short discussion ensued, in the course of which Mr. Parry said he should be happy to forego half his own remuneration in the event of its being decided to go on for another three months.

Mr. PHILLIPS thought the offer was a very handsome one, and raid one encouraging feature to be borne in mind was that Mr. Parry had been very fortunate with some other Cornish mines, and therefore it was an encouragement to go on a little longer with this mine.

A suggestion was thrown out that the meeting should be adjourned for a short time, with the view of obtaining more information from the mine, and also to see whether some economy could not be introduced into the labour cost.

The accounts were then adopted, and the meeting adjourned for a fortnight, and in the meantime Mr. Parry will obtain from Capt. Andrews further information regarding the exact position and prospects of the mine, and also ascertain whether more economy cannot be introduced into the labour cost.

GREAT LAXEY MINING COMPANY.

The half-yearly meeting of shareholders was held at the City Terminus Hotel, Cannon-street, on Wednesday, Mr. GEORGE W. DUMBELL in the chair. The notice convening the meeting having been again, the agent's

Mr. George W. Dumbell in the chair.

The notice convening the meeting having here acted, the agent's report and statement of accounts were seen as read.

The oral RMAN then read the following report of the directors:—The directors, in meeting their fellow-shareholders, have nothing very brilliant to lay before them, but they have the satisfaction of being able to publish a better balance sheet than almost any other British mining company, and although from the unexampled depression of the Metal Market the directors have deemed it advisable to abstain from offering lead ore for sale, they are able, by means of the reserve fund, to pay the shareholders a dividend for the quarter of 8s, per share, being at the rate of 40 per cent. per annum on the capital of the mine, and which dividend was yesterday declared by the board. In helding the lead ore in hopes of an improvement in the market, the directors hope to obtain the entire support of the shareholders.

All things are going on steadily at the mine, the directors using every effort by means of rock-drills, locomotive engines (in place of horse labour), and by every other means that can be found advisable for improving the mode of working the mine and of dressing the ores. The shareholders may rest assured that the directors will continue to pursue the same course of action, and they hope with continued success.

The CHAIRMAN said: Gentlemen, the accounts, which those share The CHAIRMAN said: Gentlemen, the accounts, which those shareholders who take an interest in comparing one half-year with another, will be found, I think, on the whole, satisfactory, inasmuch
as the cost is, on the whole, considerably reduced, and at the same
time the produce of the quantity of ore is just about the same as
last time. You will see by the accounts that the last half-year—
that is the half-year ending October, 1877—we gave a return of 1100
tons of lead ore. Now, you will find that this half-year which we
have now got before us, here our sales of lead ore are 610 tons; but
we had then, when these accounts were made out, in store ready
for sale, 500 tons more; therefore, that makes it just 11 tons more
than in the last half-year. I think, therefore, that it will be satishave now got before us, here our sales of lead ore are 610 tons; but we had then, when these accounts were made out, in store ready for sale, 500 tons more; therefore, that makes it just 11 tons more than in the last half-year. I think, therefore, that it will be satisfactory to the shareholders to know that although we have not been able, according to our judgment, to sell with prudence, yet it has not been for want of having the ore to sell, which is a very different thing. We have gone on, notwithstanding the dreadfull fall in the market for all kinds of metals, making sales of blende ore, and you will find that we have realised by means of blende ore during the half year 10,512%. And I can also inform you that since that account was made out and audited we have sold blende to the extent of 6830. more; therefore, it is not that we have not been doing something in the way of sales, but our management of blende ore is very different to our management of lead ore. In the first place, lead ore is sold by sample; samples are sent out to every smelter, and we are bound to take the highest bid offered, whatever it may be. Our blende is not sold in that way, but it is sold under contracts made from time to time with large smelters, and we are not bound by any price, but such as we consider we ought to get according to the market; therefore, there can be no sort of combination amongst smelters against the mine, because they have no opportunity. If they will not give the price we consider we have a right to get we will not sell. Of course we must be dependent to a great measure on the market, but still if we sent out samples of blende for sale we should be in the position that you will see a good many mines in England that have small returns of blende—they sell in the same way by ticket; but the prices they get are not what way sold to be ended to be a tacit and the position of such measure of the price of the same way by the sell of the market, which we should always have had—a reserve fund, and I believe we are the

Mr. Peter Watson: I shall be very happy, Mr. Chairman, to second the resolution. I think under all the circumstances it must be very satisfactory to you, gentlemen, in the present state of the lead market, where there has been a fall of something like 5%, or 6%. second the resolution. I think under all the circumstances it must be very satisfactory to you, gentlemen, in the present state of the lead market, where there has been a fall of something like 5l. or 6l. I aton, to receive the usual dividend of 8s. per share—the dividend paid for some time in this mine. At the same time the directors felt that it would not be advisable to pay the bonus of 2s. per share, and I think very properly so. But at the same time we must hope that we have seen the worst of the lead market. From what I heard yesterday afternoon and what I have heard this morning we may hope when the Eastern Question is settled, which I trust will be before long, we shall see not only the lead trade but the various other metal markets respond in the same way to the feeling that there is that if this Eastern Question was settled we should have a great rally in all metals. There is good room for it, not only in the iron but in the coal, lead, tin, and copper trades. With regard to lead, tin, and copper, all those metals are as low now as they have been for about the past 40 years. That is a positive fact. I was with a tin smelter this morning, and he said that for something like 38 years (that is nearly 40 years) tin was never so low as it is at the present time. We may almost say that lead and copper are in the same position; and we must hope that things have got to the worst point, and that they will begin to mend. So far as the mine—Great Laxey—is concerned, the agent is here, and will be able to tell you more than I can tell you about it, but I gather from the report that the mine is looking as well as it did twelve months ago. There is one thing to be considered. As the Chairman has told you, we wiped off the debt of 5000, with regard to various other mining companies, the debts they made, but the mine is looking as well as it did twelve months ago. There is one thing to make the present of the shareholders, and we established this fund, which has since been augmented. By having that we were able to me

The GRATMAN Are preasures that the company is registered in England, and Mr. Biogrant I know it is quite possible to alter the deed if the shawholden Mr. Biogrant I know it is quite possible to alter the deed if the shawholden Mr. Biogrant I know it is quite possible to alter the deed if the shawholden Mr. Biogrant I know it is quite possible to alter the deed if the shawholden Mr. Biogrant I know it is quite possible to the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at a sum of the company should be held at the held company should be held to think the was any evidence. The directors find though a district in the shareholden or director, or a supposed distrust by the circles of garra it had be estimated at, its amount of the dividends now recommunity and the did not industry. The cash balance is 2764%, and the rest is held in the state of the state of the did not industry. The cash balance is 2764%, and the rest is held in the state of the state o

LUSITANIAN MINING COMPANY.

LUSITANIAN MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices of the company, Queen-street-place, on Thursday,

Mr. Henry Rever, C.B., in the chair.

Mr. W. G. Williams (the secretary) read the notice convening the meeting. The report and accounts were taken as read.

The Craiteman said: Gentlemen, it becomes my duty to propose the first resolution—"That the report now presented, with the accounts and the balance-sheet to September 30, 1877, be received and adopted." It is unnecessary, gentlemen, that I should trouble you at any length with further comments on the statement which the directors have laid before the shareholders. We deeply regret, in common with every other person interested in the welfare of this concern, that the results of the operations during the year ending September last have been so unfortunate. At the same time the report explains that the considerable loss which has been sustained at the Palhal Mine is entirely attributable to the remarkable decline in the market value of the ore which we produce, the ore itself being identically the same. In point of fact the produce of the past year ending September last was 47 tons more than in the preceding year, so that, as has often been observed in this mine, the more progress we have made in depth the better the mine has become and as Mr. Richard Taylor has observed there is no other mine in which there has been such a continuous deposit of ores from the surface down to the very agreat depth of 200 fathoms, which the workings now reach at this moment. The returns of the mine are by no means inconsiderable—in fact, they are quite as good as we have any reason to expect or desire if the prices we obtain for our ores were at all equal to what they were a very few years ago. The decrease in last year alone was 22. St. 6d. per ton in the market selling price at Swansea, which makes a difference of over 2000. The decline in the price of ore since 1875 would we bout double that amount, and if we had received the same

statives of the fa proposition for a state is self-supporting tugal—I suppose trabled to say whour duty to call the future operat will now only m Richard Taylor w Mr. John P. Ju The motion was The motion was
Mr. R. TAYLOF
ervations, but th
eport you are life
We began the last

the superintend in the two botto That would dep extension of the the lode is large 5 tons of excelle accounts now print a very great has the price of the pric and to do a cer engagements in depend upon it in any degree scale, and wit alluded to wit being carried relieved from time enable u The CHAIR directors, wit a less brillian cancies at the reduced to th of the director

> The four house on t The usu

On the mo Francis, the The procee

at the pre in recogn of 8571. The CI charged u the past that their -40%, per t tate to say from any produced ventured t

the success paralleled The repo months the risen in rithe same 80 fm. lever or nearly ably well. The CH and he comes, seeing the merce pay a divergence of the new research.

> PAR March were a the constratific character to the winder manage long a offers manage opened when t open a silver-l the sar for lead siderin

sentires of the family of the lessor—the late Mr. Pinto Basto—who were not only sentires of the family of the lessor—the late Mr. Pinto Basto—who were not only stress of the company, and have not been some interruption in these made in the company, and have always existed between us—to make a many interruption in these and friendly arrangement—allows which have always existed between us—to make a many and the property of the company of t

m which will canne you to come to a right and proper decision as to your ture course.

The CHAIRMAN moved the re-election of the retiring directors—Messrs. John P. did and Robert Henty. — Mr. PEARSE seconded the motion, which was carried. The CHAIRMAN said they had to regret the resignation of their colleague—Mr. hmidt—and it was not proposed that the vacancy on the board thus occasioned ould be filled up at the present time. He might mention that the original intion of this company, as expressed in their deed, was that there should be eight rectors, with a liberal remuneration. As the affairs of the company had assumed less brilliant appearance the directors had not thought it right to fill up the vacies at the board occesioned by death or other causes, and the number was now duced to the minimum. As the shareholders were probably aware, the services the directors had for some years been unremunerated.

On the motion of the CHAIRMAN, seconded by Mr. MEADOWS TAYLOR, Mr. W. much, the retiring auditor, was re-appointed.

Francis, the retiring auditor, was re-appointed.

The proceedings then closed with the usual compliment to the Chairman.

WHEAL PEEVOR MINING COMPANY.

The four-monthly meeting of shareholders was held at the account-

The four-monthly meeting of shareholders was held at the account-house on the mine, on Thursday,

Mr. Thomas Pryor (the purser) in the chair.

The usual preliminaries having been disposed of, the statement of accounts were submitted, showing a profit on the four months working of 1215l., which was applied 347l. to write off the debit balance at the previous meeting, and 21l, the amount voted to Capt. White in recognition of his valuable services, leaving an available balance of 857l.

In recognition of his valuable services, leaving an available dalance of 8574.

The CHAIRMAN said that not only were the merchants' bills charged up to the end of February, but the present accounts included the costs of a new calciner, which had been erected during the past month. Since the last meeting he was glad to tell them that their returns of tin had been increased by about 20 tons over the previous account, and if the price of tin had remained the same—40, per ton—as it was in the preceding 16 weeks, they would at this moment have had an additional 650, to their credit. (Hear, hear.) At the same time it was impossible to exagerate the importance of the position which Wheal Feevor now occupied in its relation to the tin mines of the county of Cornwall, and when they had in their midst a mine which was able to make so handsome a profit, it was natural they should feel more than ordinarily elated, and he did not hesitate to say that they should feel more than ordinarily elated, and he did not hesitate to say that they had no reason to fear competition, either from Australia or from any other quarter. It was worthy of note that the 180 tons of tin had been produced from about 3000 tons of stuff stamped with 39 heads of stamps, and he the success which had attended their operations at Wheal Peevor was almost unparalleled in the county.

The report of Capts. White and Joseph Prvor stated that during the last twelve

the success which had attended their operations at wheat a curve was paralleled in the county.

The report of Capts. White and Joseph Pryor stated that during the last twelve mouths they had driven in levels in the south lode to the extent of 140 fathoms, risen in rises and sunk in winzes 70 fathoms, driven in cross-cuts for intersecting the same 60 fathoms, and sunk Sir Frederick's engine-shaft from the 70 to the 60 fm. level, thus making a total of ground explored on the south lode of 270 fms, or nearly a third of a mile in length, and the mine continued to open up remark ably well.

minated.

OMBE SILVER LEAD MINE,—The preliminary meeting of PARACOMBE SILVER-LEAD MINE,—The preliminary meeting of adventurers in this cost-book company was held in Exeter, on March 29, when reports from Capt. C. H. Maunder and T. F. Hosking were submitted. The former states that the Paracombe lodes are the continuation of the well-known rich lodes of Combmartin. The stratification of the ground these lodes traverse is of precisely the same mineralised character as in the Combmartin Mines, from which have been sold silver-lead ore to the value of over 60,000. In conclusion, he adds that if the development of the mine be carried on in the vigorous manner it really deserves under judicious management a very small capital will, in his opinion, suffice for making this erolong a good dividend-paying mine. Capt. T. F. Hosking reports that the set offers many advantages seldom to be met with. There are three well-defined lodes ranning through has been done to justify him in saying that, in his opinion, when this purpose of the property, one [only, however, up to the present has been opened on, but enough has been done to justify him in saying that, in his opinion, when this part is reached, or even before, by the adit level they will have laid open a profitable lode. The back of the lode appears to be full of branches of silver-lead ore, from which he has himself broken some very good stones, and had the sand assayed, the result of which proves its richness, being worth 16½ in 20 of the lead and 13½ czs. of silver to the ton. This is very encouraging, and considering the shallow point from which it was taken (being only about 9 ft. from surface) he has every reason to believe that as the same is worked on in depth it will continue to increase in richness.

[Forremainder of Meetings, ses to-day's Supplement.]

FOREIGN MINES.

THE MINING JOURNAL.

FOREIGN MINES.

ST. JOHN DEL REY.—Telegram from Morro Vello, dated Rio de Janeiro, April 8: Produce for the month of March, 41,500 olts.—16,581.; yield, 63 olts.—DOS PEDNG —Gapt, Virsin, March & Miss. In exploring the cross cut a little below Alloes West, No. 8 old shoot, north ground, we have not yet got to the north aid of a hole, or a latton and with. Up to this point the ion continues for the sort met with airce this continues to read on the other side of the excavation referred to; this is the second thing of the sort met with airce this cross cut has been commenced, and to doubt this safe has a we have extended operations here not a single stope had been opened out before the two which was are now working eastward or down hill, where the lode is a lara as when last advised.—Pitwork: We have succeeded in getting out the water and moving the bid 10 into lift, and have lengthmend it. We are now present as when last advised.—Pitwork: We have succeeded in getting out the water and moving the bid 10 into lift, and have lengthmend it. We are now present the single with H-piece and top door-piece, we in the main siciline, and the west in H-piece and top door-piece, we in the main siciline, and the single with H-piece and top door-piece, we in the main siciline, and the single with H-piece and top door-piece, we in the main siciline, and the single with H-piece and to got a single single with H-piece and to the single with H-piece and the single with H-piece a

rotem.

Telegram from Rio, dated April 9: Produce for March, 4500 oits.

RIOHMOND CONSOLIDATED.—Telegram from the mine at Eureka, Nevada: Week's run, \$95,000, from 1120 tons of ore; week's produce of refinery, \$55,000.

R. Rickarl, March 20: During the past week operations have been carried on with usual regularity and with good results. The 200 drift is without change since my last; the stope above the same level is much improved, and turning out good ore. The 400 main drift is still in ore. A winze has been begun on the fotom of this level; it is now down 10 ft. in very rich ore. The stope in the 400 cross cut is looking very well; both ends of the stope are in very good ore, No. 5 chamber, above the 200 level, is much improved; a drift has been driven in a northerly direction from the stope 25 ft. in very good ore, and the end is still looking very well. The No. 4 chamber is also much improved; a drift has been driven in a northerly direction from the stope 25 ft. in very good ore, and the end is still looking very well. The No. 4 chamber is also much improved; a drift has been driven 40 ft. from the chamber, with high grade ore all the distance. The 800, on quartite, is looking very promising; it produces occasional stones of galena and carbonates of lead. The sinking of the winze below the 900 has been suspended, on account of the water: the quantity now coming in is too great to be hoisted by hand. The mine is looking, on the whole, remarkably well. The furnaces are smelling their usual quantity of ore, and are in very good working order.

EBERHARDT AND AURORA.—Telegram: Tunnel in 2856 feet. The rise still favourable. Mine some improvement. Want 1800?

COLORADO UNITED.—Extract from superintendent's letter, dated March 14: Early yesterday morning we cut into a fine lode of rich mineral in the Union Tunnel. I have to-day assayed specimens which I took out myself this morning, and which I know to be fair average samples of the lode; they gave 285 ozs. of silver to the ton. The mine is looking spelandid throu

been able to get our cuts down fast enough to use water more than a few hours on the 24th. I am still driving the main tunnel, and hope before long to have the claim in splendid working order, when I shall use the water alternately on this claim and Neece and West. The latter will have another run on about the last of this month. I cleaned up at Red Dog on the 15th; it is yet in the amalgam, but I judge the amount to be \$1800 or \$2000; this claim will not show much profit until we get further from the rim, and as it all requires to be blasted we can only make slow headway for the present. The water supply keeps up, and will evidently till April, but as there is but little snow on the steep hollow slopes, I am not looking for late water.

April 9: The directors have received the following telegram from their unperintendent (Mr. G. B. Powers): —We have cleaned up after a run of 35 days. The gross returns are \$2500; the profit is \$2000.

CEDAR CREEK.—J. A. Stone, March 21: I cleaned up the Baker as far as the Yankee section the day before yesterday, and obtained \$279\formal{3}\$ ozs. of gold, which will coin something over \$5000. It is regarded here as being very good. I will soon forward to you all accounts and vouchers since Oct. 1, 1871. I have about 16 days' run in Central claim, and the flume at the present time shows well. I expect to get another good clean-up in this claim. I have powder drifts completed for another blast in the Baker.

OREGON.—Frank Ennis, March 16: I have just returned from a visit to the company's mines at Galice Oreek, and am sorry to say the clean-up for the month of February was very unsatifactory, being only \$20 zs., and considerable leaded at that, consequently I cannot tell what it will not. Both the Reed and Thoss claims used water nearly all the month, and they have removed an average amount of gold in the gravel. I presume there is as much or more in the cuts and on the

bed-rock as we cleaned out of the sluices, but if we had it all the amount would still be very small. The cost-sheet for February will amount to \$1500. Ditches the property of the property o

AUSTRALIAN MINES.

PORT PHILLIP AND COLONIAL (Gold).—The directors have advices dated Feb. 19: Quantity of quartz crushed on both the companies and tributers' accounts for the four weeks ending Jan.: 0 was 4591 tons; pyrites treated, 30 tons; total gold obtained, 1646 ozs. 19 dwts. 12 grs.; receipts (including 1626. 15s. 3d. obtained from tributers), 3711. 2s. 6d.; payments (including 1629. 13s. 3d. paid for firewood, &c.), 27781. 2s. 10d.; profit, 9321. 19s. 8d., added to which was previous balance of 3028. 15s. 4d. The amount divided between the two companies was 10001., the Port Phillip Company's proportion of which is 6501. The balance carried forward was 20281. 15s. 4d. Remittance, 6001.

balance of 2093. [3s. 8d., making an available balance of 3028. 15s. 4d. The amount divided between the two companies was 1000., the Port Phillip Company's proportion of which is 650. The balance carried forward was 2023. [3s. 4d. Remittance, 6500.]

— Telegram, dated Melbourne, April 5; Month ending March 27—Gold obtained from company's quartz, 349 ozs.; gold obtained from tributers' quartz, 1000 ozs. Profit, 541. Remittauce, 400.

SCOTTISH AUSTRALIAN.—The directors have advices from Sydney, dated Feb. 18, with reports from the Lambton Colliery to Feb, 13, The sales of coal for the month of January amounted to 14.457 tons.

ENGLISH AUSTRALIAN.—Capt. Räisbeck, Feb. 20: We have sunk the engine shaft 8 ft.; present depth, 426 ft. We have put in the runners from the 320 ft. piat for the cages to work to the bottom of the shaft; we are now putting in the frame; set at 430 ft. for chamber. The ground has altered considerably for the better in the last 4 ft., quartz leaders heavily charged with mundic having been met with. The contractors in prospecting shaft have sunk 24 ft. 6 in., and driven 5 ft. 6 in. in chamber. The country has much improved for the last 20 ft.; present depth, 235 ft. I am sorry to inform you that we had a breakage on the evening of the 23rd ult. when lowering the pumps. Without any perceptible cause the pumps broke 9 ft. below the 320 ft. plat, and dropped to the bottom of the shaft, breaking the clack piece, working barrel, and three pumps. When taken up and examined it was apparently air-blown.

— 8. H. Clark, Feb. 20: The accident which occurred in the shaft has cost us in material and extra labour about 43%, but everything is again in good order, and the work will be pushed on vigorously. No blame can be attached to Capt. Raisbeck, as the pump which broke was to all appearance sound, but when broken in material and extra labour about 43%, but everything is again in good order, and the work will be pushed on vigorously. No blame can be attached to Capt. Raisbeck, as the pump with the toole; with the object of ventiating this give and facilitating trioute works I have begind to sink a winze right under No. I trial shaft, at the 10, . . Total number of men on tribute on Morphett's and Kurilla lode 18, at an average of 7s. in 11.—Ora Returns: Stock on Jan. 31, 390 tons of ore of 17 per cent. and 610 tons of dredge ore of 5 per cent., together of the estimated value of (asy) 3300% net; 200 tons are now being dispatched for shipment to England per Torrens.

IMPROVED CHECK TILL.—A very efficient check till is being introduced by Messrs. STRER and Co., of Bush-lane, Cannon-street. On receiving a payment the cashier draws a ticket from a suitable receptacle and writes upon it the amount received. This marked ticket is placed in the ticket passage on the top of the till; a thumb stud is then pressed inwards, which sets the whole apparatus in work simultaneously—that is, a gong is sounded, an indicator registers that one rayment has been received, the ticket passes into an exhibitor, which is directly facing the customer, whose attention will have been arrested by the gong mentioned; the money now being placed in the till, the action of shutting the lid will again cause the gong to sound, and also cause the ticket to pass to the lower end of the exhibitor, where it remains until the apparatus is again in use, when it passes into a locked receptive to the twenty of the interest of the till is operation only one amount is in view. The number recorded by the indicator should at all times agree with the number of tickets passed, and the addition of the amounts on the tickets represents the amount of sterling the till should contain. The price of the till is only a few guiness, which would soon be saved where dishonest servants are employed. IMPROVED CHECK TILL,-A very efficient check till is being inThe

CAMBRIAN

MINING COMPANY,

LIMITED,

Sold at

Swansea, April 9th,

116 Tons of

Copper Ore,

Which realized

£1,113 5s.

Average price,

£9 11s. 11d. per ton.

Hodgkinson & Co.,

9, Great Winchester St.,

London, E.C.,

Can now

Supply

Cambrian Shares

At £3 per Share.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDAUNANT.—5, Toy, April 10; In the 15 we have now cut into the lode of the 15 ft. There is no sign of the north wall as yet. The present forebreast is poor, and the ground very hard and spare for driving, on account of the lode being subject to many cavities, and discharging so much water, that there is scarcely any boring or blasting it, consequently, I have suspended cutting further through the lode, and set the men to drive east on the course of the lode, where I am hoping we shall soon meet with better ground and more lead.

ABSHETON.—G. Rickards, April 10: The pitch over the 50, east of boundary shaft, is working at 58s. per ton for lead ore, and 10s. per ton for blende. No. 2 pitch over the 50, east of Mawr's, at 120s. per ton for blende. No. 2 pitch over the 50, east of Mawr's, at 40s. per ton for lead and 10s. per ton for blende. No. 1 pitch below the 40, east of Browne's, at 60s. per ton for lead ore and 10s. for blende. No. 2 pitch over the 20, east of Mawr's, at 120s. for lead ore. No. 2 pitch over the 20, east of Mawr's, at 120s. for lead ore. No. 2 pitch over the 20, east of Mawr's, on the north and south lode, at 127s. 6d. per ton for lead ore. The last two pitches have no tribute for blende. No. 1 pitch, south of Mawr's, at 120s. per ton for lead and 10s. per ton for blende.

BAMPFILDE.—J. Juleff, April 9: I am pleased to inform you that the ends and stopes are looking very promising for producing fair quantities of copper ore, and the more I see of the mine strengthens my opinion that it will make an excellent property. At Crawborne there is a very fine-looking lode, and if opened on in the western hill I hope and believe it will quickly open out large quantities of mangances, which will, in my opinion, pay well for prosecuting with vigour. The 112 end, west of No. 4 shaft, is worth 8. per fathom. No. 3 stope in back of the 112, is worth 8. per fathom. I should say we have about 2004. worth of copper ore at surface.

BEDFORD UNITED.—R. Goldsworthy, W. Phillips, April 11: In th

most encouraging.

BLAEN CAELAN UNITED.—J. Pell, April 11: Everything at these mines remain satisfactory. The lead in the bottom of the winze sinking below the 20 is worth 50l, per fathom; the ground being hard the sinking is exceedingly slow. The engine shaft is going down very nicely, the ground being favourable for

nost encouraging. AN UNITED.—J. Pell, April 11; Everything at these mines remain satisfactory. The lead is the bottom of the wince sinking below the 20 is worth 60; per fathom; the ground being hard the sinking is exceedingly slow. The engine shaft is going down very nicely, the ground being favourable for Progress. HILLS.—S. Beneaths, A. Gripe, April 6; The Pink lode in the 80, east from the engine-shaft, is opening out satisfactorily, and is at present worth 155, per fathom. The top lode, in the same level east, has somewhat improved, and is worth just now from 12i. to 15i, per fathom. We now commence to open out west asion on this lode. On the north lode the 80 eastern sems gradually improvated the state of the 15i and 15

DERESBY CONSOLS.—John Roberts, William Bennetts, April 10: The Gors heading is looking more kindly for making lead. The lode is 3 ft. wide, having two good walls, and a good matrix of spar.—Owen's Lode: This is letting out water freely, and we expect a good improvement shortly. We have ordered the rails, and shall put them in directly.

water freely, and we expect a good improvement shortly. We have ordered the rails, and shall put them in directly.

D'ERESBY MOUTAIN.—John Roberts, William Bennetts, April 10: There is nothing new to report here this week. The lode in No. 3 is still small. The No. 4 holds its own as we have reported for some time past, worth 3 tons of lead to the fathom, and 4 tons of blende.—No. 5: We are making good progress in this level. The crusher is on the mine.

EAST ORAVEN MOOR.—D. Williams, April 11: The 42 west has been extended during the month 6 fms. 4 ft., and is now withing 30 fms. of the new shaft from the surface. The vein in the end is at present 2 ft. wide, and intermixed with good patches of lead ore. The 30 west has been extended a fms. west of sew shaft from the surface. In the 86, west upon Hardgate's end vein, the latter is 3 ft. wide, and worth 10 cwts, of lead ore per fathom.

EAST DARREN.—April 10: In the 80, cast of cross-cut, the lode is 3 ft. wide, yielding saving work. In the same level on south branch west the lode is 4 ft. wide, yielding 15 cwts. of lead ore per fathom. In the 90, west of cross-cut, on south branch east, the lode is 5 yard wide, yielding cocasional stones of ore. The stopes and pitches throughout the mine are without improvement to report. Our machinery is in good working order, the drawing and dressing being pushed forward as the weather permits, which has been very hindering the past fortalght.

EAST-VAN.—W. Williams. April 11: Tempest shaft is down 2 fms. below the to the fathom, and 4 tons of blende.—No. 5: We are making good progress in this level. The crusher is on the mine.

EAST CRAVEN MOOR.—D. Williams, April 11: The 42 west has been extended during the month 6 fms. 4 ft., and is now withing 30 fms. of the new shaft from the surface. The vein in the end is at present 2 ft. wide, and interest of sew shaft from the surface. In the 56, west upon Hardgate's end vein, the latter is 3 ft. wide, and worth 10 cwts, of lead ore per fathom.

EAST DARREN.—April 10: In the 80, cast of cross-cut, the lode is 3 ft. wide, yielding saving work. In the so, cast of cross-cut, the lode is 4 ft. wide, yielding 15 cwts. of lead ore per fathom. In the 80, cast of cross-cut, the lode is 4 ft. wide, yielding 15 cwts. of lead ore per fathom. In the 80, west of cross-cut, on south branch west the lode is 4 ft. wide, yielding 15 cwts. of lead ore per fathom. In the 80 cast of cross-cut, the lode is 4 ft. wide, yielding 15 cwts. of lead ore per fathom. In the winzes slaking under the 85 the lode is large, yielding cocasional stones of ore. The stopes and pitches throughout the mine are without improvement to report. Our machinery is in good working order, the drawing and dressing being pushed forward as the weather permits, which has been extended 3 fms. below the 35. The 55 cross-cut south has reached the hanging-wall, which is well-defined, We have cross-cut 50 ft. through ground producing lead more or less throughout, the water is constituted to the water permits, which has been extended a fms. PANDORA.—H. Nottingham, April 10: New Lode: The 33 driving south continued to the width of driving.

EAST-VAN.—W. Williams, April 11: Tempest shaft is down 2 fms. below the best on this side, and shall be more likely to cat down the water. The lode is now composed of carbonate of the walls with us at present, to we are turning to the foot the wall of the width of driving.

and in some places saving work. The leds is well-defined, and the ground ishael enough to produce lead in paying quantities. We have driven example on the lode of ft., and out good spots of lead, especially upon and upon the course of the lode of ft., and out good spots of lead, especially upon and upon the lode in ground intermixed throughout with spots of lead, blende, and say which in 20 or 3 fms. driving may show improved results. Taking into consideration the appearance and width of the lode in this cross-out, I am looking forward to the next level (the 70 below adit, or 110 fms. from the surface) in hopes of being able to report that we have a mine. We hope to have the shart down in four the control of the state of cross-out, is carried for the state of th

GREAT KETALLACK.—J. Harris, April 8: The lode in the 53, west of eater across out, continues to yield good blende, worth fully 3 tons per fathom. I think it is the same run of blende ground we missed in the 45, as it has all the same characteristics.

GREAT RETALLACK.—T. Harris, April 1: The lode in the 53, east of shaft, continues to produce fully 3 tons of blende per fathom; a very pretty lode. Otleg parts of the mine are looking much the same as when last reported.

GREAT WHEAL RODD.—T. Hooking, April 9: I am very pleased to report of the further good progress made at the mine during the past week. The water in No. 1 shaft on Budge's lode continues to drain more rapidly as we proceed with the drivage of the deep adit towards the lode; the same is now in 32 fms. from the brook, and is of a similar character, being composed of a beautiful blue and soft killas. We are now at a point where it gains backs very fast, and the ground is becoming more settled. Additional hands are now employed to hasten on the work as spedily as possible, and in the course of another week we hope to be enabled to report that the lode has been reached.

HIN GSTON DOWN CONSOLS.—T. Richards, April 11: Bailey's Shaft: In the 172 east the lode continues its strong and masterly size, but for the present does not contain so much ore, being now worth 4 tons, or 10t, per fathom. The cutting of the ground for the skip-road is finished, and in a day or two more we shall have all the timbers fixed and the road complete to admit of drawing the stuff from the 172. The lode in the 169, west of Nicholls' winze, is large, and containing cape, quartz, mundic, and copper ore, to the value of about & per fathom. There is no material change in any other part of the mine.

KIT HILL TUNNEL.—H. Bennet, April 11: The following is the setting report:—The tunnel to drive north, by six men, at & 1.2x. 6d. per fathom. The end to drive west of the tunnel on the silver lode, by six men, at 24. 15s. per fathom. The odo is drive west of the tunnel on the silver lode

stones of lead ore, and promising for a further speedy improvement.—Old Engine Shaft: We are getting nice ore from the two pitches, and the men continue to get fair wages. Our machinery is still in good working order, and the dressing is kept on by tributers.

LLANRWST.—Robert Knapp, April 11: Endean's shaft is sunk 3 fms. under the 14. We have about 3 ft. more to sink before commencing to put in bearers and cistern and fixing the standing lift from the 14 to the adit. The caunter lode at the 14, west of the shaft, is improving getting under the ore ground gone down from the level above. In the eastern end it is 3 ft. wide, and producing 2 tons of lead ore per fathom. We have not yet commenced stoping at this level. At the adit, east of Prospect shaft, the lode is 6 ft. wide, and producing 3 tons of lead ore per fathom. This end is 40 fathoms in advance of the one selow. The stopes in the back of this level (seven in number), two men in each stope, are producing their usual quantities of ore.—Main Lode: In the 9, west of Diagonal shaft, the lode is 6 ft. wide, producing 1½ tons of lead ore per fam. In the winze sinking under the adit, east of the shaft, the lode is 4 ft. wide, producing 1½ tons of lead ore per fam. In the winze sinking under the adit, east of the shaft, the lode is 4 ft. wide, producing 1½ tons of ore per fathom. This winze is about 10 fathoms in advance of the eastern end at the 9, therefore we expect to open up a good plece of ground here. The new engine and stone-breaker I expect will be set to work next week, after which a more extended scale of working will be adopted.

MELLANEAR.—John Gilbert, April 10: The lode in the 40, west of the rise, west of the skip-shaft, is 2 ft. wide, and worth 1 ton of copper ore per fathom. The stope in the back of this level, east of No. 3 rise, is also worth 5 tons of ore per fathom. The stope in the back of this level, east of No. 3 rise, is also worth 5 tons of ore per fathom. The tope in the back of this level, east of No. 3 rise, is also worth 5 tons of

APRIL] any special remy last report pose sampling PATELEY is worth 3 ton much of the of lead ore persons are as an areason.

bargains un winze, and possible, at the in a posi be in a posi or regular a communies (We have regular a communies of the min SOUTH ing most fration with leak at the product of the position of the min source of the min s

APRIL 13, 1878.]

**Ad, and blende; a beautiful-looking lode. The two stopes working over the a south are quite as good as formerly reported, worth 35 cwts. of lead and 2 tons a south are quite as good as formerly reported, worth 35 cwts. of lead and 2 tons of the control of

laft.

words well, upon a vein worth 2 tons of lead for per fathom. The stopes and metal pitches are turning out profitable quantities of lead one. I have solicited motivation from Mesers. However, the provides of the propagate of the

THE MINING JOURNAL

In the sorth breach there is a considerable stream of water basing, indicating the predicting of there asing a critical change should.

In the sorth breach there is a considerable stream of water basing, indicating the basing as a critical change should. In the 45, south of the engine should be sorted to shaft in the prediction of the south shaft and bad one, but some per policy of the south shaft and bad one, but some per policy in the south shaft and bad one, but some per policy in the south shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the basin shaft and bad one, but some per policy in the bad of the south shaft and bad one, and the bad of the south shaft and bad one per policy and per policy a

and the control of the carbon from the control of t

by country shareholders in getting accurate and disinterested information as to the state of Coruish and Foreign Mines, and of the financial and real position of mining companies generally, have induced Messrs. Warson Brottres to make their Oleoniar now published in the Mining Journal more extensively known, and the Oleoniar now published in the Mining Journal more extensively known, and the Union of the Union and country papers), giving the closing prices of Mining Shares up to Four ciclock.

They also buy and sell shares for immediate cash or for the usual fornightly settlement in all Mines dealt in on the Mining and Stock Exchange, at the close market prices of the day, free of all charges for commission. They deal also, on the same terms, in the Public Faunds, Railways, Telegraphs, and all other Securities dealt in upon the Stock Exchange.

Having agents in all the mining districts, they are constantly getting mines inspected for their own guidance, and will also obtain special reports of any par vicular mine for their clients, for the inspecting agent's fee of £2 2s.

In the year 1843, when mining was almost unknown to the general public attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. Watson, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (first series, 1862), "Cornish Notes" (first series, 1862), "Cornish Notes" (first series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, annually for 21 years, &c., &c. In the Compendium, published in 1843, Mr. Watson was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the algregate," and Messrs. Watson Brottless have always a selected list on hand. "Perhaps at no former period in the annals of mining has there been more peculiar need of hopest and experienced advice in regard to mines and s

to 51; we under

The Market for 1

reported. Hudson Bay, 10 to 10½. Pawson, 6 to 6½. Native Guano, 2½ to 3½. Mining shares are strong, and in considerable demand, tin shares in several instances showing an important rise. Wheal Peevor has declared a 5s. dividend, shares being quoted 6½ to 6½. Wheal Grenville, 3½ to 4. Carn Brea, 45 to 47½. Dolcoath, 31 to 33, Grand Trunk securities so far retain yesterday's prices, thus showing an important rise since Tuesday. — Theo cicack.—D'Eresby Monatian shares are quoted 85 to 100, and business has been done at 90. Many en quiries are made for D'Eresby Consols, but there does not appear to be any shares on the markets. North British has given way slightly, but Caledonian is ½ higher than at the opening. — Four Celeck.—British are now no better than 8½ higher than at the opening 48. East Van, 6½ to 6½. Van, 23 to 24. Don Pedro, 10s. to 12s. 6d. Port Phillip, 10s. to 11s. Frontino and Bolivia, 1½ to 2. Leadhills, 3½ to 4. Chapel House Colliery, 2½ to 3½. Cardiff and Swansa, 10s. to 20s. Newport Aberearn, 4 to 4½.

TO THE METAL TRADE.

FOR COPPER, TIN, LEAD, &c., apply te-MESSRS, PELLY, BOYLE, AND CO., SWORN METAL BROKERS, ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

The Mining Market: Brices of Metals, Ores, &c.

Pig. 6MB, f.o.b., Clyde. 2 11 0—8 Seotch, all No. 1 2 12 6-3 10 0 Bars, Welsh, f.o.b. Wales 5 2 6-5 15 0 ", in London. 5 15 0—7 10 0 ", in Tyne or Tees. 5 10 0—5 15 0 ", Bwedish, London. 9 15 0—0 Rails, Welsh, at works. 4 17 6—5 0 Bheets, Staff., in London 8 5 0—8 10 0 Plates, ship., in London 6 15 0—7 5 0 Ploops, Staff., in London 6 15 0—7 5 0 Mall rods, Staff. in London 6 15 0—7 5 0 Mall rods, Staff. in London 6 15 0—7 0 STEEL. English, spring	IRON. & s. d. & s. d	TIN. 2 s. d. 2 s. d
Scotch, all No.1		English, ingot, f.o.b 67 0 0 - 67 10 0
Bars, Welsh, f.o.b. Wales 5 2 6-5 15 0 """ in London 5 15 0-5 """ in Frome or Tees 5 10 0-5 15 0 """ swedish, London 8 5 10 0-5 15 0 """ Breeds, Staff, in London 8 5 0-8 10 0 Plates, ship, in London 6 15 0-7 5 0 Hoops, Staff, in London 6 15 0-7 5 0 Hoops, Staff, in London 8 5 0-8 10 0 Plates, ship, in London 6 15 0-7 5 0 Hoops, Staff, in London 8 5 0-8 10 0 Plates, ship, in London 6 15 0-7 5 0 Hoops, Staff, in London 8 5 0-8 10 0 Plates, ship, in London 6 15 0-7 5 0 Hoops, Staff, in London 8 5 0-8 10 0 Plates, Staff, in London 8 5 0-8 10 0 Rail rods, Staff, in London 8 10 0-7 0 Bwedish, keg. 13 10 0-19 00 Bwedish, keg. 14 0 0 """ fag, ham, 15 00 """ fag, ham, 17 7 6 """ fag, ham, 18 10 0 """ fag, ham, 18 5 0 """ fag, ham, 19 0 0 """ fag, ham, 19 0 0 """ fag, ham, 19 0 0 "" fag, ham, 19 0 0 """ fag, ham	Scotch, all No. 1 2 12 6- 3 10 0	, bars ,, 68 · 0 0- 68 10 0
, in London. 5 15 0- , Stafford., ., 6 15 0- 7 10 0 , in Tyne or Tees. 5 10 0- 5 15 0 , Swedish, London. 9 15 0- Rails, Welsh, at works. 4 17 6- 5 0 , Bleets, Staff, in London 8 5 0- 8 10 0 , Plates, ship., in London 6 15 0- 7 5 0 , Hoops, Staff. in London 6 15 0- 7 5 0 , Hoops, Staff. in London 6 10 0- 7 0 0 BYEEL. English, spring 13 10 0-19 0 0 , cast 30 0 0-40 0 0 Bwedish, keg 14 0 0- , Lead. English, plg, common. 17 5 0- , W.B 18 10 0- , white 18 10 0- , white 24 10 0-26 10 0 , patent shot 23 0 0- Bpanish. Metal, per owt 18 0 0-20 0 Ore, 10 per cent. per ton. 24 0 0-26 10 Ore, 10 per cent. per ton. 25 0 0-26 10 Ore, 10 per cent. per ton. 25 0 0-26 10 Ore, 10 per cent. per ton. 25 0 0-26 10 Ore, 10 per cent. pe	Bars, Welsh, f.o.b. Wales 5 2 6- 5 15 0	
, stafford., , 6 15 0 - 7 10 0	. in London, 5 15 0	
### Type or Tees	Stafford 6 15 0- 7 10 0	
Rails, Welsh, at works. 4 17 6-5 0 0 Bleets, Staff, in London 6 15 0- 7 5 0 Hoops, Staff, in London 6 15 0- 7 5 0 O Mail rods, Staff, in London 6 15 0- 7 0 0 Mail rods, Staff, in London 6 10 0- 7 0 0 O O Mail rods, Staff, in London 6 10 0- 7 0 0 O O O O O O O O O O O O O O O O O	in Type or Tees 5 10 0- 5 15 0	Straits 63 0 0
Bluetes, Staff., in London 8 5 0-8 10 o Plates, ship, in London 6 15 0-7 5 o Hoops, Staff	" Swedish, London 9 15 0- —	COPPER.
Blacets, Staff., in London S 5 5 5 5 5 5 5 5 5	Rails, Welsh, at works 4 17 6- 5 0 0	
Plates, slip. 10 London 6 15 0 - 7 6 0 Mail rods, Staff. 11 Lon, 6 10 0 - 7 0 0 Mail rods, Staff. 11 Lon, 6 10 0 - 7 0 0 Streel.	Bheets, Staff., in London 8 5 0-8 10 0	Best selected 70 0 0- 71 0 0
Hoops, Staff, in Lon. 6 10 0 - 7 0 0	Plates, ship., in London 6 15 0- 7 5 0	Sheets and sheathing, 72 10 0
STREL STREEL ST	Hoops, Staff 7 15 0- 8 0 0	Fiat Bottoms 75 10 0
Street	Mail rods, Staff. in Lon. 6 10 0- 7 0 0	Wallaroo 73 0 0- 73 10 0
Bwedish, keg	STEEL.	Burra, or P.C.C 71 0 0
Seedish, keg	English, spring	Other brands 69 0 0
Fig. 1 Fig. 2 Fig. 2 Fig. 2 Fig. 3 F	cast	Chili bars, g.o.bnom. 62 10 0- 63 0 0
Fig. 1 Fig. 2 Fig. 2 Fig. 2 Fig. 3 F	Bwedish, keg14 0 0	PROSPHOR BRONZE.
English, plg, common. 17 5 0- "" J. H.B	, fag. ham15 0 0	
English, pig, common17		Other alloys £120 0 0- 140 0 0
Wire	English, pig, common17 5 0	
## sheet and bar.18	,, L.B17 7 6	
", red		Shoets 9 - 93/
white 24 10 0-26 10 0 patent shot 23 00 - Spanish 23 00 - Spanish 27 00 - Metal, per owt 18 00-20 00 Oro, 10 per cent. per ton 24 00-26 00 Quicksitves. Flasks of 76 bs., ware 7 00 - Sillesian 18 50 - 18 10 0 Singlish, Swanea 21 00 - Singlish, Swanea 21 00 - Silke Taggers, 450 of 10 11 10 12 Silke Sample S	,, pipe19 0 0	
## patent shot	,, red	
Spanish	white:24 10 0-26 10 0	Nails composition 8½ - 9
Metal, per owt 18 0 0 - 20 0		Trw. Prayre * ner how.
Metal, per owt		
Ore, 10 per cent. per ton.24 0 0-26 0 0 Ooke, 1st quality		
QUICKSILVER. Flasks of 75 lbs., ware. 7 0 0 - Black	One 10 per cent per ton 24 0 0-26 0 0	
Flasks of 76 ba., ware. 7 0 0 -		cond, and duming their o to o
BILESIAN	Flasks of 75 lbs., ware. 7 0 0	Black per ton 16 0 0- 16 10 (
English, Swansea 21 0 0 Black Taggers, 450 of lea	SPELTER.	Canada, Staff, or Gla.,) 10.0 10.0
English, Swansea 21 0 0 Black Taggers, 450 of 30 0 0		at Liverpool
Sheet zinc	English, Swansea 21 0 0	Black Taggers, 450 of lea o o
* At the works, is. to is. 6d. per box less for ordinary; 10s. per ton less for		1 1 10

Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. Terne-plates 2s. per box below tin-plates of similar brands.

Canada; IX 6s. per box more than IC quoted above, and add 6s. for each X. Terue-plates 2s. per box below tin-plates of similar brands.

REMARKS.—Our markets are still in a most sluggish and unsatisfactory condition, and there are no symptoms whatever of any change for the better. Prices to date have all moved in one direction, and the downward tendency does not yet appear to be arrested. The reason is obvious; for who could have confidence in the stability of our markets, or in anything, at such a grave and perilous period, and in such an age of extreme depression and adversity? Who, indeed, would voluntarily incur risks and be hampered with unsaleable stocke? Or who would not rather prefer to be released from incumbranes and responsibilities than to add to them? All thorough business men are prefer and cautious, and no business man would, therefore, care to involve himself at difficulties, or to commit himself to engagements of any magnitude extending well time, more particularly of a speculative character, during a critical stage or proceedings between two powerful nations like England and Russia who may be said to be standing face to face almost in open deflance of one another when there is no security from one week to the next that peace will be presented. The course of events are more warlike than peaceful, for the 8m Stefano treaty is a failure, and the diplomatic correspondence is a failure, and the diplomatic correspondence is a failure. There is, in fact, as yet no pacific solution. There has been funcile liabable time and the Conference is a failure, and the diplomatic correspondence is a failure and the Conference is a failure, and the diplomatic correspondence is a failure. There is, in fact, as yet no pacific solution. There has been funcile liabable time and the Conference is a failure, and the diplomatic correspondence is a failure. There is, in fact, as yet no pacific solution. There has been funcile liabable time and the conference is a failure, and the diplomatic correspondence is a failure. T

of suspense, and it is folly to build upon or to look for any improvement at this indefinite stage of the proceedings.

COPPER, —The state of this metal remains unimproved, and it must be evident to sellers that the concessions they have lately submitted to were judicious, and not made prematurely or unnecessarily. For even now at the reduced quotations the demand is in adequate to the supply, and if no reduction had taken place to secure what business could then be procured the market would now be in a much worse position than it really is, and 282. los, would not have been attainable for named and best brands of Chili. By making these wise and timely concessions holders have thus been enabled to relieve themselves of some portion of their superfluous stocks, and consequently lightened their load, and statistics are, perhaps, less favourable than would otherwise have been the case, not but what stocks are still excessive, and they will probably bring the price down below present rates. Although the price is comparatively low, yet no one is struck with astonishment, or possesses a sufficient amount of courage to act upon an apparent advantage which low prices would seem to offer, and no wonder when the tendency continues decidedly downward, a fact drawing to the fulfilment of Rogers' prediction of 60% for Chili bars. Never were buyers more reluctant to exceed their requirements than at the present time, and they are firm against all temptations to depart from their resolute determination. With unprecedented stocks, undiminabled supplies, indifferent demand, adverse advices from India, falling exchanges, war prospects, increased taxation, dearer ford, and a high rate for money, what brighter prospects are there in view for the market, and who, in deed, would be sarguine enough under these drawmataness to anticipate a rise? It is one thing for a holder to put the best construction he is able upon the difficulties of the situation, but quite another thing for a consumer or dealer who may remain happily unfettered

to that market, for few buyers would be inclined to leave offers open exceeding 581, to 501,; and if sellers, these are not prepared to accept such offers, they will have to continue their consignments to England, or allow stocks to accumulate, which will naturally terminate disastronsly. There is generally too high a price paid in Valparaiso for copper to be exported to this country, and it does not pay to import unless a larger margin can be obtained or there happens to be a rising market on this side, otherwise the profit is seldom commensurate on the risk. The imports of copper are rather less for the first three months of this year compared with 1877, but rather more than those of 1876. The ores are 18,096 tons, against 18,421 and 15,190 tons respectively; regulus, 8226 tons, against 9010 and 7080 tons; unwrought and part wrought, 8986 tons, against 1917 and 8092 tons. The exposts are 3867 tons for this year, 4778 tons for 1877, and 3542 for 1878. The advices from New York of the 30th ult. state that the demand for manufactured copper and yellow metal is fair but not active, and prices unaltered. The market for ingots remains 'very quiet, and sales embrase about 150,000 [bs. Lake, at 17.c.; holders, however, are said not to urge supplies, the statistical position being considered strong on account of light stocks, and no receipts are expected from the Lake region before next month, India does not respond at all to the current prices of our market either as regards copper or yellow metal, and the markets are in a languid condition.

IRON.—The variations in our market have been of a trifling cha-

ourrent prices of our market either as regards copper or yellow metal, and the markets are in a languid condition.

IRON.—The variations in our market have been of a trifling character, both as regards the amount of business transacted and the alteration in the prices. The demand has been so greatly reduced from various causes that there seems very little room left for increased limitation; and as to prices, they are now sufficiently low as not to present any obstacle to all ordinary purposes of consumption; nevertheless, lower prices for certain descriptions appear necessary in order to defeat foreign competition, otherwise there is no objection to urge against existing rates, but the orders cannot be secured for the English houses unless they can produce as cheaply as foreign manufacturers. The question of price consistent with quality is the leading feature to be considered, and merchants will continue to execute their indents sisewhere as long as they can gain any advantage in price over that of the English sellers; it immaterial to the buyer whether iron is made in England or Belgium, as long as he can get what he wants to his entire satisfaction, but it is a wholly different matter to the iromasters and those employed in the trade. Every ton of iron that is imported from abroad is a curtailment of labour in this country, and is a positive sacrifice, not only to the working classes, but to many others who are as much interested in the welfare of the trade. The principle upon which Englishmen have been acting has proved to be defective and injurious, and for the future, instead of masters and men acting antagonistically to one another, there must be a just and proper understanding, based upon mutual good feeling and a reciprocity of interest, and every modern and improvements should be substituted for antiquated machinery. It is a good time to remodel works, for as business is so slack and unprofitable there is not much to be lost on that account, and repairs and improvements can be effected in an in expens IRON.—The variations in our market have been of a trifling cha

rices as yet have undoubtely made no lattor, and the desired that the antibody rices as yet have undoubtely made no lattory, and the desired that the antibody rices as yet have undoubtely made no lattory and the whole and East Coat houses to effectually overcome this foreign competition, and for the future to undersell Belgium to the like extent as she has been underselling as.

Our markets remain, on the whole, in about the same sluugish and alothful conditions as they have been now for many months. The demand is particularly conditions as they have been now for many months. The demand is particularly conditions as they have been now for many months. The demand is particularly conditions as they have been now for many months. The demand is particularly conditions are said to be in employment on short time, many only working half time, while others are standing nearly, if not allogether, ide. Both the home and the export trades are alike in their extreme dulness, the chief orders that are given out for the former being those for Government purposes, while those for the latter are so monotonous that they require little or no comment. The reports which reach us daily from the various producing districts are most reductions being made in their wages; still the request for all kinds of iron is so limited that but few orders are placed. The returns from Middlesborrough for the last mouth show an increase in the make of Cleveland ore of 3138 tons over the month of February, or making a total of 148, 41 tons. The total make in March of ore was 177.531 tons, as compared with 11,277 tons in the previous month. The foreign alippents show an increase of 5465 tons, and the coast simpments of the public warrant stores they have increased 7608 tons, now reaching the high figure of 108,485 tons.

The whole trade in this district is reported in a most depressed state, and especially pig-from, and prices are somewhat easier; buyers refuse to place their orders and the contract has perfect the public warrant stores they have inc

through at 51s. to 51s. 1d. 10 PRODUCT Proposed Suggish, and prices continue to show a de now close for Scotch pig-iron at 51s. cash.

BRITEMENTS.

For the week ending April 7, 1877

For the week ending April 6, 1878 ... Tons 6,806 711 FURNACES.

and since improved about 10s. per ton, but it is again attainable at the former price. From Penang advices to the 8th ult. state that during the earlier part of the four weeks under review no transactions for Europe transpired. Chinese bought up to 1600 picule, at prices gradually declining from 66i, 15s. to 65i, 15s., c. and f. Since

then a better demand for Europe caused prices to advance. After a small let had been taken up at 55!. 10s., c. and f., the market became firmer, and about 5000 pieuk changed hands at \$18 to \$18 5, and latterly at \$18 10. which is the closing quotation. Stocks in the Bazaar aggregate 9000 pieuk. From Batavia (Feb. 28) it is reported that, according to official returns, the stock of tin at Banca amounted on Sept. 30, 1877, to \$1,061 28 piculs, increased in the fourth quarter with 34,51791. 45,757 24; shipped in the fourth quarter, 31,348 17; stock in Banca in December, 1871, 53,381 57 piculs. From America (March 30) the market for tin was reponduli, and though the position of the article is statistically strong, the small deliveries for consumption have rather a depressing effect, and prices are not as strong as they have been. According to the Board of Trade returns, the quantity of the imported into England in 1878 amounts to 92,336 cwts., against 76,693 in 1877.

QUICKSILVER is unchanged at 71. Demand only small. then a better demand for Europe caused prices to advance. After a small let had been taken up at 65/, 10s., c. and f., the market became firmer, and about 6000.

THE IRON TBADE.—(Griffiths's Weekly Report).—Friday evening. The Glasgow market has been dull to day. G. M. B. warrants close this evening with sellers 51s. cash, buyers 14 days open. This is about 2d. less than the prise last Friday. We quote makers No. 1 iron—Gartsherrie, 58s. 6d.; Colines, 58s.; Caider, 58s. 6d.; Colines, 58s.; Langloan, 69s.; Bummerlee, 58s.; Monkland, 51s. 6d., fo. 61asgow; Glengarnock, 57s.; Egilinton, 52s., f.o. b. Adrossan; Shotts, 60s., fo. b. Leith; Kenniel, 54s. 6d., f.o. b. Bo'ness. The Birmingham Quarter-day was bed in the Exchange on Thursday. The meeting was not so large as usual. The tinplate makers attended in large numbers, and a hasty meeting of this branch of the trade was held at the Queen's Hotel in the morning, to devise some means of averting the present ruinous prices at which coke plates are being sold. M. Saunders, of Cookley, was in the chair, and a committee was appointed which will report further action; about 150 tin mills were represented. Sheffield and the West Coast were not so effectively represented as usual, distinguished members of the trade, both from Barrow and Sheffield, being absent. There was a large with the sales usually made of the raw material at this Birmingham Quarter day. Several sales of Middlesborough pig iron took place, some of moderate magnitude made by thebrokers, who attended from Middlesborough and Manchester. Whitwell's pigs also occasionally changed hands to their regular customers in the Black Country.

North Staffordshire pigs shared the attention of buyers, and sold to a med-

well's pigs also occasionally changed hands to their regular customers in the Blac Country.

North Staffordshire pigs shared the attention of buyers, and sold to a moderate extent. There was little done in Northamptonshire pigs. The usual contract were entered into with the Lilleshall and Madely Wood Companies for Shropshire. 200 tons of Grazebrook's cold blast were also reported, but buyers as a rule seemel indisposed to go into large contracts; probably the uncertainty still existing in regard to the Eastern Question was the cause of this carefulness on the part of buyers. There was no change in the price of pig-iroor or the raw material. Neither the smelters nor manufacturers pressed their produce on the market. In this state of things only a moderate amount of local business was transacted. The sheet-froa trade appears to be in a moderately fair condition. Gavianising sheets were in demand to the same extent. Orders for boiler-plates were less numerous. There was a good supply of orders given out by the London merchants (who were well represented) for best bars and other kinds of iron, based on \$l. 10s, for bars. There was also a fair amount of general business done in specialities by this class of buyers. The death of Mr. W. H. Dawes, of the Bromford Ironworks, was posted on the Exchange, which created much sympathy for the bereft family. We have no change te notice in metals this week. Copper is more active. Spelter drooping. Australian tin, 63.6 s.b, per ton.

Messrs. Fax, James, and Co.—We have experienced a continued general heavi-

Messrs. FRY, JAMES, and Co.—We have experienced a continued general heaviness, and some instances of further depression.—Copper has been neglected and drooping in values, the decline since our last having been from 20s. to 30s. per ton.—IRON is without change.—Tix, after having experienced some decline, har rallied in the last few days, and is firm at quotations.—LEAD is still slow of sale, but without quotable change.—Spelter is unchanged.—Tix-Plates also without change.

without change.

Messrs. Brooker, Dore, and Co.—Tin-Plates have been sold at further reduced prices, and again some attempts are being made to restrict the output, so as to more nearly equalise supply and demand.—Galvanise Ison: The competition in this class of iron is somewhat severer, but the trade is developing, and we think that the demand will prove equal to the supply. One company that has been selling at very low prices has just published its balance sheet, showing a heavy loss on the year's trading. We should think the revelation will tend to check in future the disposition to sell regardless of cost.—Lead has again fallen in value to the extent of about 12s, 6d, per ton.—Zinc: The market for this metal has also shown a downward tendency, and is cheaper by about 5s, to 12s, 6d, a ton.

Messra, Pixley and Abell.—Gold: The withdrawals from the Bank duries.

has also shown a downward tendency, and is cheaper by about 08. to 128.0d. a ton.

Messrs. PIXLEY and ABELL.—Gold: The withdrawals from the Bank during
the week have been very small, comprising only 21,000/. bar gold, for Paris; all
other orders for the Continent have been supplied by the undermentioned arrivals,
which have all been taken for export. We have received 300,000/. from Ameris,
12,900/. From India, and 2000/. from the Pacific: total, 314,900/.—SILYEE: The
market has been very quiet during the week; there has been no fresh orders for
the United States, although about 370,000/. has been sent to New York in the last
few days, and there are again no shipments of silver for India to report, The arrivals have been about 310,000/. from Germany, and 58,000/. by the Pacific steamer;
this last amount has not yet been sold.

The settlement of a comparatively heavy fortnightly account has occupied the chief attention of the dealers in the MINING SHARE MARKET this week, but on Friday a more active business set in, and there was a good demand for lead mines, as well as enquiries for tin shares, several of which advanced in price. Altogether the market is in a very healthy state, large purchases being made for investment, and very little done for mere speculation.

TIN MINES have become more in demand, and on Friday a good many enquiries were made on the market respecting them, at advanced prices. Tin is said to be be firmer, notwithstanding the demassion of the standard forces in Congwell; and we may probably see

pression of the standard for ore in Cornwall; and we may, probably, see an an advance ere long if we may judge from the present excitement. Carn Brea shares have advanced to 45, 47½. Cook's Kitchen, 2 to 2½; Dolcoath, 31 to 33; Tincroft, 11 to 12, Wheal Grenville in dependent at 21 to 23.

2 to 2½; Dolcoath, 31 to 33; Tincroft, 11 to 12. Wheal Grenville in demand, at 3½ to 3½.

Wheal Peevor, 6½ to 6½; at the meeting, on Thursday, this promising mine entered the Dividend List. The accounts for four months showed a profit of 1215L, and a dividend of 5s. per share—750L—was declared, carrying forward a balance of 120L. The tin ore sold—144 tons—realised an average price of 35L. 12s. 6d. per ton only. The mine continues to look well. Wheal Eliza accounts for six months ending Dec. show sales of tin—233 tons—for 11,652L; copper, 277L; total credits, 13,440L. The costs were 7284L, and after payment of two dividends—2L per share in August and 1L 10s. per share in October—there remained a balance of 2572L, out of which an interim dividend will be paid. Penstruthal, 4s. to 6s. South Condurrow, 11 to 11½; at the meeting next week a dividend is expected. South Crofty, 7 to 8; South Frances, 2 to 2½; West Frances, 2½ to 3; West Godolphin, 1½ to 1½; Wheal Agar, 4 to 4½; Wheal Kitty (St. Agnes), 2 to 2½.

Agnes), 2 to 2½.

COPPER MINES are dull, with scarcely any business doing.
Devon Great Consols, 2½ to 3; East Caradon, ½ to ½; West Tolgus,
65 to 67½; West Seton, 10 to 12. Parys Mountain, 9s. to 11s.; the
mine will sample two parcels of copper ores next week. Mellanear,
4½ to 4½, Prince of Wales, ½ to ½; at the meeting the accounts
showed a balance of liabilities over assets of 3264. 10s. 11d. The accounts were passed, and the meeting adjourned for a fortnight to

snowed a balance of habilities over assets of 3204, 108, 114. The accounts were passed, and the meeting adjourned for a fortnightto take into consideration future proceedings.

LEAD MINES are still mostly in favour, and a large business done in D'Eresby Mountain, D'Eresby Consols, East Van, Van, Tankerville, Monydd Gorddu, Leadhills, and a few others. Great Laxey, 18 to 19; the directors have declared a quarterly dividend of 8s. per share, without the usual bonus of 2s. Roman Gravels, 8 to 8½; the new engine-shaft is 15½ fms. below the 95. On Thursday next the mine will sample 180 tons of lead ore.

Ladywell, 1 to 1½; the sampling here is 25 tons of lead. Tankerville, 3½ to 4½; the lode in the 192 west is worth 2 tons per fathom, and the winze below this level 5 tons per fathom. There are eight tribute pitches being worked at prices varying from 5k, 10s. to 6k, per ton of dressed ore. D'Eresby Mountain, 85 to 100; the Gorse lode is still worth 3 tons of lead and 4 tons of blende per fathom, and good progress is being made with No. 5 level. D'Eresby Consols, 15 to 15; the Gorse lode is 3 feet wide. South Darren, 37s. 6d. to 42s. 6d.; the mine still looks well, and is making a profit—further dressing machinery is about to be erected for increasing the returns. Pandora, 15s. to 20s.; the new lode in the 33 fm. level continues worth 1½ ton of lead ore and 1 ton of blende per fathom, but they do not see either wall of the lode. The stopes in the 23 fm. level are not see either wall of the lode. The stopes in the 23 fm. level are worth 35 cwts. of lead and 2 tons of blende per fathom. A winze below the 23 on Goddard's lode is worth 2 tons of lead and 1 ton of blende per fathom—a good course of ore. The stope in the 6 fm level is worth 1 ton of lead and about the same quantity of blende

Derwent, 30s. to 35s.; the mine continues to look well. Derwent, 30s. to 35s.; the mine continues to look well. Assheton, \(\frac{1}{4}\) to 1; East Van, \(6\) to \(6\) ; Glenroy, 15s. to 17s. \(64.\); Grogwinion, \(3\) to 4; Caron, \(2\) to 2\; Herodsfoot, 7 to 8; Leadhills, \(3\) to 4; Llanrwst, \(1\) to 2\; North Laxey, 3s. to 5s.; Lisburne, 50 to 55; Bodidris, \(1\) to 1\; Rookhope, 17s. \(6d.\) to 20s.; Temple, \(3\) to 3\]; Van are firmer at 23 to 25; West Chiverton, 13 to 14; West Tankerville, 10s. to 15s.; Wye Valley, \(1\) to 2\], West Wye Valley, \(3\) to 3\]; Monydd Gorddu have advanced to 2, 3; West Pateley, 2 to 2\].

FOREIGN MINES.—Blue Tent, 3 to 3\]; Chontales, 10s. to 12s. \(6d.\); Don Pedro, 10s. to 12s. \(6d.\); Eberhardt, \(5\) *\(4t\); Flagstaff, 10s. to 15s.; New Zealand Kapanga, 7s. \(6d.\) to 12s. \(6d.\); New Quebrada, \(1\) to 1\]; Fort Phillip, 10s. to 11s.; Richmond, \(9\) to 10. Hultafall,

ettled, and a v at the improved f all classes are on the fact that the ilanthropists, who such funds as may able to take their o s able to take their c nat the three nationa rofits which British merican mining ent the same direction, les by a new and it. English and Euroj rerience has show etty heavy "loadin kings. What woul anisation of million aeir own terms and his is a question w confer benefit upor confer benefit upor train French capita ith the manageme eryone is aware of the English or Gery eryone is awate other English or Gerrapital to work Welsi erprise is highly ocreasing the capita gous in stimulatine most thoughtless be expended by Facility is along the control of the control of the capital of the expended by I will be jealous ng Frenchmen; compelled to exe netition, leaving use English, and The Clogau (W om the former e No. 7 section nd has impr

> ottish Austra ve advices from r January amoreference, \$\frac{3}{4}\$ to ine to Feb. 18. ine to Feb. 18.,
> m them in the 4
> so on tribute on 1
> e Returns: Stock
> dge ore of 5 per
> o 1 tous are now bei
> illip and Colonial
> 1. 19a, 8d., maki
> tween the two coi
> ng 650l. The ren
> tes that the Mare St. John del ted Rio de Jar 500 oits., of the ton, or 7.8 of well. Don F well. Don red states that the exploring the crowy have not yet gont the lode continut will be found is the second the end of the end gold dust purch addition to the re-ended on capita he machinery. Silencio, which from the Palmi ton. At Antion Chairman of

shed 773 lbs.

ureka states and the wee er's report, v he tunnel is, iders auther roving, both unnel is a mo oth of several e permanence and all who ha ook." This far ed by the last arable; mine s superintendent cut into a fine is looking sp areholders ld in their

n place in th ed to have

company an ure holders n purchased ding there ushing, dres

ated to have lucing 10 to: e a ton of bull \$10 more tha on can be draw and the cont n San Francis arprising tha g in the States ultafall, 5 t e points of week. At satates tha e Market i e and some urman this year ed as being tal claim.

garded as heavy rai on will be ar result e the quar uices. It d Mines ns. Van, to $5\frac{1}{2}$; we understand a telegram has been received that good reults are being obtained at the dressing floors.

Ithe are being obtained at the dressing-floors.

The Market for Mine Shares on the Stock Exchange has been very nesttled, and a very limited amount of business has been done; nesttled, and a very limited amount of business has been done; at the improved feeling as to the future continues, and promoters all classes are very active in their preparations for the anticipated coming prosperity. Capitalists may congratulate themselves at doming prosperity. Capitalists may congratulate themselves at the their interests are about to be looked after by several financial pointhropists, who intend to devote themselves exclusively to the expenditure hilambropists, who intend to devote themselves exclusively to the expenditure hilambropists, who intend to devote themselves exclusively to the expenditure hilambropists, who intend to devote themselves exclusively to the expenditure hilambropists are to be enlisted of the substantial and the three nationalities are to be wrought simultaneously. The percentage of nat the three nationalities are to be wrought simultaneously. The percentage of nat the three nationalities are to be wrought simultaneously. The percentage of nat the three nationalities are to be enlisted. Past a English and European continental agents and bankers are to be enlisted. Past English and European continental agents and bankers are to be enlisted. Past English and European continental agents and bankers are to be enlisted. Past English and working the market in order to suit their own book? The six is a question which the capitalists the english and conference of financial philanthropy, however, is one which is really calculated cond piece of financial philanthropy, however, is one which is really calculated end piece of financial philanthropy, however, is one which is really calculated end piece of financial philanthropy, however, is one which is really calculated end piece of financial philanthropy, however, is one which is really calculated end piece of financial philanthropy, however, is one which is The Market for Mine Shares on the Stock Exchange has been very

in the neighbourhood. During the month the Britten pans ushed 773 lbs. of ore, which yielded a bar of gold weighing

Scottish Australian, 1\(\frac{1}{8}\) to 1\(\frac{1}{4}\). Preference, \(\frac{3}{4}\) to 1; the directors ve advices from Sydney to Feb. 18, stating that the sales of coal r January amounted to 14,457 tons. Yorke Peninsula, \(\frac{1}{4}\) to \(\frac{3}{8}\), eference, \(\frac{3}{4}\) to 1; the directors have advices from the Kurilla line to Feb. 18. They are hopeful that the Kurilla lode is not far an them in the 45, west of Hall's. The advices conclude: Total number of so on tribute on Morphett's and Kurilla lode, 18, at an average of 7s, in 1l.—e Returns: Stock on Jan. 31, 300 tons of ore of 17 per cent, and 610 tons of ago ore of 5 per cent, together of the estimated value of (say) 3300l, net: 0 tons are now being dispatched for shipment to England per Torrens. Port illip and Colonial, \(\frac{1}{4}\) to \(\frac{3}{2}\); the profits for the four weeks ending Jan. 30 was 1.0s, \(\frac{3}{2}\), \(\frac{3}\), \(\frac{3}{2}\),

ween the two companies was 1000L, the Port Phillip Company's proportion in 6898. The remittance was 600L A telegram from Melbourne, dated April 5, itse that the March profit was 54L, and the remittance 400L.

St. John del Rey, 305 to 315; the telegram from Morro Velho, ted Rio de Janeiro, April 9, states that the produce for March was 1,500 oits, of the value of 16,081L, the ley of the ore being 6.3 oits, of the training the constant of the c

treams there to erect the same, and resume mining operations rushing, dressing, &c., the ore. Sichmond, 9½ to 10; the usual weekly telegram from the mine Eureka states that the week's run was \$95,000, from 1120 tons of and the week's produce of the refinery was \$55,000. The mater's report, which is of an encouraging character, will be found nother column. Eberhardt and Aurora, 5½ to 6½; the whole face he tunnel is, according to reports from what the Eureka Sentinel siders authentic sources in ore a chance in the formation having the tunnel is, according to reports from what the Eureka Sentinel siders authentic sources, in ore, a change in the formation having taken place. It is added, that "the ore in the cross-cut is also roving, both in quality and quantity. The strike in the face of numel is a most important one, demonstrating the existence of ore bodies at the of several hundred feet, and going further towards solving the problem epremaence of the once famous White Pine Mines. The residents of Hamilland all who have an interest in Old Pogonip, are to be congratulated on the ok." This favourable state of affairs does not, however, appear to be consely the last selegram, which merely say—"Tunnel in 2856 feet; rise still uzable; mine improvement; want 1890." Colorado United, 1½ to 1½; suprintendent's letter, dated March 14, reports that on the previous morning cut into a fine lode of rich mineral in the Union Tunnel. He had assayed average samples of the lode, and they gave 285 oz, of silver to the ton. The still cooking splendid throughout. The lower stope of the Brown is opening cill, as helders, in the content of the content of the colorance of the Brown is opening cill.

areholders in poor base bullion-producing American mines in their calculations remember the vast reduction that has place in the price of lead. The Union Consolidated Company ed to have suffered a loss of \$60,000, and at Darwin a furnace ucing 10 tons of bullion per day loses just \$350—in other words, eaton of bullion formerly realised \$25 over and above transportation it now \$810 more than the lead is worth to market is (but, of course, no useful consecutive to the contents of silver per ton of lead, be known), since it costs \$40 per and the contents of silver per ton of lead, be known), since it costs \$40 per a San Fancisco to refine the bullion, or separate the lead and silver; it is urprising that some enterprises belonging to this class of industry are sufin the States.

in the states, illustiall, 5 to $5\frac{1}{4}$; there is nothing new to report in these mines ultafall, 5 to 5½; there is nothing new to report in these mines epoints of operation continue the same as when reported upon week. A telegram received this morning from the dressinglestates that good results are being obtained from the dressing. The Market for Hydraulic or Gold Washing shares has been more and some amount of business reported. Blue Tent, 3 to 3½; report of the annual meeting will be found in another column. Chairman announced a further clean-up of \$10,000, making a this year of \$32,200. The shareholders may be congratulated possessing a valuable property with such large reserves of derous gravel. Cedar Creek, ½ to ½; the agent announces a nup at the Baker claim, with a return of \$5000, which is redea as being very good. Washing continues on this and the real claim. Birdseye Creek, ½ to 1; a telegram received during seek announces a clean-up, with a profit of \$2000. This may garded as satisfactory, considering the delays caused by the heavy rains. The manager's report of the last clean-up at on will be found in another column. We are told that a neavy rains. The manager's report of the last clean-up at on will be found in another column. We are told that a ar result was obtained at the 'commencement of last season's log, though it was afterwards discovered that more than a the quantity of gold obtained was lying in the bed-rock cuts uices. It is considered probable that it will prove the same eason.

d Mines have been fairly active, and transactions more nu-us. Van, 23 to 25; the sinking of Seaham's shaft is steadily the los west is being driven upon a strong westerly

lode; the end is worth 4 tons of lead ore per cubic fathom, and improving. Other points of the mine unchanged, and all operations going on satisfactorily. Grogwinion, 3% to 4%; everything progressing as usual, and the deepest workings opening out rich. Wye Valley, 2 to 2½; the winze below the 22 is still improving, and the 46 east has changed for the better. All other operations going on satisfactorily. West Wye Valley, 3% to 4; the bottom level (54 fms.) is opening up profitably, and all other points giving astisfaction. The parcel of lead soldon April 6-80 tons—realised 10½. 10s. 64, per ton. A further parcel is being got ready. Caron, 2½ to 2½, the mine continues to make good progress, and the bottom level is steadily improving. Red Rock, 2 to 2½; a fresh discovery has been made, good ore having been cut into in the 10, west of the new shaft. This is an important part of the mine, and adds greatly to its value. All other portions of the limine continue to look well, and produce plenty of ore.

Bt. Harmon, 2½ to 3½; the cross-cut in the bottom level west is now driven into the lode 12 ft., and the prospects are promising. The lode produces both lead and copper, and it is expected that some large deposits will be met with when the driving on the course of the lode is resumed as soon as the cross-cut is fairly through the lode, which is described as large and powerful, and contains all the favourable characteristics of the most productive lodes of the district. The cross-cut towards the south lodes is now close to the point of intersection, and the ground is steadily becoming congenial for ore. All other points going on well; a sampling of ore will shortly be made. South Ownystwith, 3 to 4; all going on well at this mine, and a great deal of lead is being raised. West Gogiuan, ½ to ½; a strong feed of water has been cut in the bottom level east, similar to what was cut some months ago, and discoveries are daily expected.

Pateley Bridge, 3½ to 4; the 30 east, on Rake vein, is worth about 3½ tons lead ore per fa

sidered to be of much value to the company, and will enable extensive operations to be carried on.

Subjoined are the closing quotations:—

Asheton, It ol 1½; Carn Brea, 45 to 47½; Court Grange, 1½ to 13½; Devon Great Consols, 2½ to 3; Dolcoath, 32 to 34; East Caradon, ½ to ½; East Van, 6 to 6½; Glenrov, ¾ to 1; Glyn, ½ to 5½; Great Laxey, 18 to 20; Hingston Down Consols, 3½ to 5½; Easthalis, 3½ to 4; Marke Valley (call paid), ¾ to ½; Easthalis, 3½ to 4; Marke Valley (call paid), ¾ to ½; Easthalis, 3½ to 4; Marke Valley (call paid), ¾ to ½; Easthalis, 3½ to 4; Marke Valley (call paid), ¾ to ½; Easthalis, 3½ to 5½; Forstruthal, 38; to 58; Roman Gravele, 8 to 8½; Rockhope, ½ to 1; Tankerville, 3½ to 1½; Easthalis, 10 to 1½; Tyn-y Fron, 1½ to 1½; Yan, 23 to 25; West Assheton, ¾ to 1; West Basset, ¾ to 1; West Chiverton, 11 to 13; West Pateley, 2 to 2½; West Tankerville, ½ to 1; Birdseye Greek, ½ to 1½; Biu Tent, 8 to 3½; Cape Copper, 29 to 31; Cedar Greek, ½ to 3½; Chontales, ½ to ½; Colorado Terrible, 1½ to 2; Don Pedro, 108; to 128; Eberhardt and Aurora, 6 to 6½; Exchequer, 1s, to 38; Hagstaff, ½ to ½; Frontino and Bolivia, 1½ to 2½; Hultafali, 5 to 5½; Javsli, ¾ to ½; Kapanga, ¾ to ½; Last Chance, ½ to ½; New Quebrada, 1½ to 1½; Orgon Preference, 4 to 4½; Pestarena, 4s, to 6s; Plumas Eureka, 2½ to 3½; Fort Phillip, 7-16ths to 9 18ths; Richmond Consolidated, 9½ to 10; St. Join del Rey, 305 to 315; Slerra Buttes, ½ to 3½; South Aurora, 3s, to 5s; Tecoma, 2-16ths to 3-16ths.; United Mexican, 2 to 2½.

3-16ths; United Mexican, 2 to 2½.

COLLIERIES.—Very little business has been transacted in these shares, and consequently there are scarcely any changes in prices to record. The quiet but continuous increase in coal exports, however, must tend to improve the position of all collieries which can be worked economically, and the prices of shares in such will be favourably affected. A similar effect must follow the growth of the iron and steel trades of the country, which are, of course, very considerable consumers of fuel. In some districts the demand for these metals is larger than it has ever been, and though prices continue low they are firm and tending upwards, and so soon as the railway companies begin to issue the orders for rails which they have so long kept back, and which must come into the market before long, the expansion of the iron and steel producing industries must be sudden and enormous. We are not, therefore, amongst those "croakers" who lament the "loss of our trade." The trade is not lost to this country. Other nations have suffered as much as, or more than, we have, and the reaction which is now happily beginning to show itself here cannot be found abroad. The demand for iron and steel in South Wales is decidedly improving, and more particularly for the best brands. Considerable shipments have been made to Belgium and South America, while enquiry for coal for shipment has been particularly brisk. In fact, general trade in South Wales is very much better, and a good season is expected.

The Yinscedwyn Company—which we mentioned last week—will, therefore, have a good start, and as it is in a position to raise a large quantity of best coal at once, and can make the best quality of iron and steel at its works, there is no doubt that the profits will be very considerable. The former company paid at one time as much as 50 per cent. dividends on its capital of 100,000/, whereas the present company's capital is only 60,000/, and the management will be conducted in a far more economical manner. On a ver COLLIERIES.-Very little business has been transacted in these

At the Swansea Ticketing, on Tuesday, 3407 tons of copper ore were sold, realising 17,799/. 19s. 0d. The particulars of the sale were — Average standard for 9 per cent. produce, 79l. 13s. 0d.; average produce, 9½; average price per ton, 5l. 4s. 6d.; quantity of fine copper, 323 tons 13½ cwts. The following are the particulars of the two last sales:—

Date. Tons. Standard. Produce. Per ton. Per unit. Orecopper. March 19 3673 ... £82 3 5 ... 811.15. £4 18 11 ... 11s. 4½d. £66 19 0 April 9 369 ... £79 13 0 9½ ... 5 4 6 ... 11 0 ... 85 0 0 Compared with the last sale, the decline has been in the standard 21.10s. 5d. and in the price per ton of over about 4s. 9d. The Better

Compared with the last sale, the decline has been in the standard 2*l.*10s. 5d., and in the price per ton of ore about 4s. 9d. The Betts Cove ore gave an average produce of 6 1-16, and sold at 10s. 4\frac{3}{2}d. per unit; Seville, produce, 5\frac{3}{2}; per unit, 9s. 1\frac{3}{2}d.; Aljustrel, produce, 4\frac{3}{2}; per unit, 9s. 1\frac{3}{2}d.; Tan y-Bwlch, produce, 14\frac{3}{2}; per unit, 11s. 4\frac{3}{2}d.; Moonta, produce, 26 1-16; per unit, 12s. There will be no sale on April 23.

GREAT LAXEY.-The directors have declared a dividend for the quarter of 8s, per share, free of income tax, payable on the 23d inst.

A petition for the winding up of the Dynevor, Dyffryn, and Neath
Abbey United Collieries Company is to be heard on May 3.

WEST TANKERVILLE.—The lode in the 86 south has improved $1\frac{1}{4}$ ton of lead ore per fathom. The 75 is improving, and the three stopes in this level are worth $2\frac{1}{2}$ tons per fathom. The two stopes in the 63 are worth 1 ton and $1\frac{1}{4}$ ton per fathom, and the stope in the rise 12 cwts.

PANDORA.-The 33, on new lode, is worth 13 ton of lead' and 1 ton PANDORA.—The 33, on new lode, is worth 1½ ton of lead, and 1 ton of blende per fathom, without seeing either wall yet. The stopes in the 23 are worth 35 cwts. of lead and 2 tons of blende per fathom. A winze below the 23, on Goddard's lode, is worth 2 tons of lead and 1 ton of blende per fathom. The stope in the 6 is worth 1 ton of lead and about some of blende per fathom. This mine has already sold lead to the amount of 9422t, blende for 1894t,—together, 11,316t, and with an advance on the present depressed prices, it would soon be in the Dividend List. Its success also tends materially to add confidence in the value of the D'Eresby Mountain Mine in the same district.

PATELEY BRIDGE.—The Rake vein in the 30 east continues to open out a valuable course of ore, the present end being worth nearly 4 tons of lead ore per fathom; and in the same level west it continues worth 1 ton of lead ore per fathom. This level having will be resumed next week upon a lode worth 2 tons of lead ore per fathom; while the indications justify the manager expecting something of further importance at this the deepest point westward. The stopes and metal pitches throughout the mine are turning out profitched augustifies of lead ore. The results of tone of the contraction of the contract ing out profitable quantities of lead ore. There are 25 tons of piglead ready for sale.

West Patrley (Lead).—This week's report announces that the lode in No. 2 shaft is 2 ft. wide, producing good stones of ore; the same lode in the 20 fm. level east is producing saving work for dressing of good quality. In the same level west the lode has been heaved south by a cross vein. The stopes are yielding the usual quantities of lead ore. The Craven Cross vein at the bottom of the mine (60 fms. from surface) is 3 ft. wide, yielding 1 ton of lead ore per fathom. On the surface the machinery is in good order, and grating and dressing is carried on as fast as possible,

which contains: Original Correspondence: British Commerce in the Superior Metals for the First Quarter of 1878; Colliery Explosions; the London Coal. Supply (W. J. Thompson); the Tin Plate Trade; Rock Drills; Air Compressors and Rock Drills (J. G.Granston); A Perfect Reservoir (R. Symons); the Tharsis Sulphur and Copper Company; the New Quebrada Company (W. W. Bird); Don Pedro North del Rey Gold Mining Company (J. S. Houston); Mineral Resources of Ireland—County Clare (J. Ryan); an Examination into the Position and Prospects of Certain Mines—No. II.—Great Laxey (W. Gabbott); the Mining Districts of Halkyn and Mold; Kingston Consols Mine (E. A. Saunders); Kingston Consols Mine (W. Hancock); Lead Mines in the North—Pateley Bridge, West Pateley Bridge, &c.,; Own Avon Works; the Mineral Poducing Granite of Cornwall (C. Bawden); West Wheal Seton; Foreign Indebtedness to the British Public (R. Tre dinnick); Public Companies, and Liquidation; "A Singular Character"; Devon Great Consols; the Five-week Month (D. P. Alford); the Effects of Mining Depression, Clifford Amalgamated Mines (R. Symons); El. Fequitad Services (R. Symons); El. Feward Great Onslow Consols (T. Duan); Great Wheal Rodd—Meetings of Javail. Sierra Buttes, London and California, Cathedral, Wheal Eliza, Rossa Grande, Combmartin Companies, &c.

ZINC ORES.

ARMAND FALLIZE, INGENIEUR-CIVIL, A LIEGE (BELGIUM),

1.—CARBONATED AND OXYDED ZINC ORES (CALAMINE, &c.) 2.-ZINC AND LEAD ORES MIXED TOGETHER, BUT DRESS-ABLE KINDS ONLY.

CAPPER PASS AND SON, BRISTOL PURCHASERS OF

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, HARD LEAD, BRASS SLAGS AND ASHES, COPPER REGULUS, MATTE, SCORIA, TIN ASHES, TERNE ASHES, &c., and MIXED ORES or REFUSE, containing LEAD, COPPER, TIN, or ANTIMONY.

WALTER ROY AND ALLAN,

184, BUCHANAN STREET, GLASGOW, EXECUTE COMMISSIONS FOR THE PURCHASE AND SALE OF SCOTCH PIG-IRON WARRANTS.

Sole Agents in Scotland for— SPEAR AND JACKSON, Etna Steel Works, Sheffield; and JOHN SHAW, Yorkshire Wire Rope Works, Sheffield.

Steel and Steel Tools, Pig and Manufactured Iron, Hemp and Wire Ropes for all purposes, Indiarubber Goods, and Farnishings of every description for Collieries, Founders, Engineers, Saw-millers, &c.

ASBESTOS.

THE BEST MATERIAL for the STEAM JOINTS of LOCUMOTIVES, MARINE and STATIONARY ENGINES BOILERS, &c.

It is manufactured entirely pure, and of the best and strongest qualities, into MILLBOARD, for STEAM, WATER, GAS, and ACID JOINTS.

Further particulars and prices of the undersigned,

SMITH, FLEMING, AND CO.,

17 AND 18, LEADENHALL STREET LONDON, E.C.

MINERALS WANTED.

A DVERTISER requires REGULAR CONSIGNMENTS of GOOD SULPHUR ORE (PYRITES), either cupreous or non-cupreous; also, GOOD BLENDE, and SOFT MANGANESE ORE. Address, "Pyrites," MINING JOURNAL Office, 26, Fleet-street,

WANTED, a CHINA-CLAY MINE, in full work; state price, acreage, plant, lease. Send full particulars, and sample, carriage paid, to WM. FORT and Co., No. 5, Wellington Buildings, South Castle street, Liverpool.

THE CHINA CLAY TRADE.

THE ADVERTISER, who is engaged in the Management of China Clay Works, has exceptional opportunities for the EMPLOYMENT of CAPITAL in this IMPORTANT and PROFITABLE INDUSTRY. Owing to the temporary depression in trade, there are now opportunities for investment which may not occur again for years, and handsome profits are certain. Address, "C. E.," MINING JOURNAL Office, 28, Fleet-street, London.

GEO. G. BLACKWELL, 5, CHAPEL STREET, LIVERPOOL, PURCHASER OF

MANGANESE, ARSENIO FLUOR-SPAR, WOLFRAM, BLENDE, CALA-MINE, CARBONATE and SULPHATE OF BARYTES, ANTIMONY ORE, CHROME ORE, MAGNESITE, EMERY STONE, PUMICE STONE, OCHRES AND UMBERS, CHINA CLAY, LEAD ORE FOR POTTERS, TALC, PHOSPHATE OF LIME, &c.

O D'ERESBY MOUNTAIN. Address, H. Wilkins, 3, Heybourne Villas, Tottenham, N.E.

THE "INVESTORS GAZETTE".

Published EVERY FRIDAY EVENING. Post free for 3 months, 2s. 6d.
The "INVESTORS GAZETTE" contains a resume, as brief and concise as posble, of the prices on the Stock Exchange and Mining Market for the week, and latest intelligence from Mines in all parts of the world.

The "INVESTORS" GAZETTE" gives the lowest net prices at which MINING and OTHERS GHARES can be purchased.

Edited and published by—

ALFRED E. COOKE, 76, OLD BROAD STREET, LONDON

Twenty three years' practical experience in Chile.

The Service of Service of the Service of Service

DEVON AND CORNISH MINES.

THE DIFFICULTY experienced by London and other distant Mine Shareholders, in obtaining RELIABLE INFORMATION respecting the state of Devon and Cornish Mines, may be most effectually overcome by corresponding with the undersigned, who from personal inspection and investigation is in a position to give sound advice respecting same.

The advice given will be based upon sound judgment and ability, but at the same time so exceedingly fluctuating is mining that he does not in any way hold himself responsible, or subject to blame, should results not always equal expectations.

tion of any Mine in Devon or Cornwall for £2 2s.

SPECIAL BUSINESS IN GREAT WHEAL RODD AND PARACOMBE SILVER-LEAD MINES.

These very promising Mines are especially worthy of the attention of everyone, as they undoubtly will prove the most profitable Silver-lead Mines of Devon and Cornwall. Particulars may be obtained from—

J. RUTTER. MINE BROKER,

PYNE'S TERRACE, EXETER.

MR. WILLIAM SALMON, F.G.S., 22, QUEEN STREET, ULVERSTON, MINING AND COMMISSION AGENT AND ACCOUNTANT. SEVERAL VALUABLE IRON ORE, SLATE and LEAD ROYALTIES, TO DISPOSE OF.

Now ready.

CAPTAIN FRANCIS'S MAP of the CARDIGANSHIRE MINES, showing their Positions, Depth, and Estimated Returns up to 1878. Two showing their Positions, Depth, and Estimated Returns up to 10, ngs, post free, from—
Mr. H. FRANCIS, 259, Gresham House, Old Broad street, London.

Notices to Correspondents.

* * Much inconvenience having arisen in consequence of several of the Number & during the past year being out of print, we recommend that the Journal should be filed on receipt; it then forms an accumulating useful work of reference.

SULPHURIC ACID.—I shall be much obliged if some of your practical chemica readers will explain, through the Journal, the easiest and best mode of manu factoring I ton of sulphuric acid of the highest strength; also where the necessary apparatus can be obtained. We have any quantity of metals combined with 30 per cent. of sulphur, also nitrate of soda and waste steam.—SULPHUR:

With 30 per cent. of sa.p.in., assistance of seasons was a series with a special principle. Peril.

RICHMOND MINING COMPANY.—I am a holder of Richmond mining shares, and have just heard with great disquietude that a claim for \$2,000,000, or even more, has been brought by the Eureka Mining Company against the Richmond for ore taken out of the disputed ground before the late lawsuit. Can any reader tell me if this is true? for I see no mention of it in your valued Journal for the past week, nor have the directors told us anything about it. But, perhaps, they, do not know, or the whole story may be untrue.—A Poor Widow.

Reccired,—"A Blowpiper"—"Mining Engineer" (Minera): There is no necessity to do so—"M. N." (Leeds): Write to the office—"Bharcholder" (Wheal Newton)—"Bharcholder" (Thornbill Reef)—"Reader" (Goginan): We fear it is true—"Bharcholder" (Wheal Kitty)—"Old Subscriber" (Bristol): We will endeavour to obtain the particulars—"R. W. B."—"Amateur" (Norwich)—"Y. Z."—"Sharcholder" (Eberhardt and Aurora): Write to the office—"Bharcholder "Gouth Condurrow—"A. E." ("Goginan)—"W. T." (Ballydehob)—"A. D'A." (Pisa)—"W. K." (Pittsburgh)—M. F. Dormer (Mining Investments): Next week—The article on Mineral Oil Motors shall appear next week.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, APRIL 13, 1878.

OUR EXPORTS OF COAL AND IRON.

The trade and navigation returns just issued by the Board of Trade The trade and navigation returns just issued by the Board of Trade for the month of March and the three months ending March 31, all things considered, are by no means unsatisfactory. So far as coal, iron, steel, and machinery are concerned, there has been a considerable increase in the weights, although not in the detailed value. Taking the whole of our exports from the three months of the present year we find that they amounted to 47,076,628L, against 47,260,755L in 1877, or a decline of 184,127L. But the main falling off has been in soft goods, for there was a decrease in the value of cotton pieces alone of 865,681L on the quarter, whilst machinery in particular looks very well. The quantity of coal sent out of the country during the last three months was 3,199,735 tons, against 2,950,636 tons in the same period of 1877. France continues to be our best customer, having increased its tonnage 706,487 tons last country during the last three months was 3,193,435 tons, against 2,950,636 tons in the same period of 1877. France continues to be our best customer, having increased its tonnage 706,487 tons last year to 807,236 tons. Italy stands next with 230,791 tons, and 226,052 tons during the two quarters. Sweden and Norway for the respective quarters took 108,598 and 142,228 tons; Egypt, 108,559 and 139,329 tons; Brazil, 71,526 and 101,500 tons. Our own Government has sent a very large quantity of steam coal to Malta for the use of our navy during the last three months, the total being 116,392 tons, against 77,778 tons in 1877. There was a falling off in the exports to Germany of about 39,000 tons of coal for the last quarter, but this is what must be expected, seeing how active the German colliery owners have become, and the large field they are now busily engaged in developing. British India appears also to be looking more to her own vast resources, for there has been a considerable falling off in the tonnage sent there of late, and so there has been from unfortunate Turkey, but for a different reason. Russia, too, has evidently found considerable difficulty in obtaining the supplies from this country she formerly did, for we find that for the three months ending March of the last three years the exports were respectively 82,363, 68,332, and 49,861 tons. But whilst the tonnage we have sent out of the country has been so far satisfactory during 1878 so far satisfactory during spectively 82,363, 68,332, and 49,861 tons. But whilst the tonnage we have sent out of the countay has been so far satisfactory during 1878, so far as it has been in excess of the corresponding months of the two previous years, the reverse is the case with respect to the values. For March, 1877, the average price of the coal exported was 10s. 3d. per ton, and for the same month of 1878 it was only 9s. 9d. per ton. But if we take the three months of last year the declared value was 10s. 6d. per ton, against 9s. 9d. per ton for the past quarter. These prices show how closely our colliery owners have worked of late to maintain their position in the foreign markets, for they state that to do so they have been obliged to sell with-

kets, for they state that to do so they have been obliged to sell without profit, and in not a few instances at a positive loss.

Bessemer rails have for a considerable time past been most extensively exported, and the trade has been very well maintained, for sively exported, and the trade has been very well maintained, for our manufacturers have shown that they are now in a position to meet their foreign competitors, even in their own markets, despite the low wages and light taxes of which they have the advantage; but this state of things, it should be stated, to a marked extent is the result of the low price of coal and iron, and the reduced rate of wages that is now paid. In hardware and cutlery the quantity exported for the first quarter of 1877 was of the value of 473,792,, and for that of the present year 784,3652, showing an increase of more than 5 per cent. showing that this important branch of trade is improving. Machinery and mill work shows to still greater advantage, the value sent away during the year having been 1.589,2192, against 1.451,8521, or more than 9 per cent. in favour of 1878. Our exports of wrought and unwrought iron for the last quarter amounted to 4.197,4682, and for the same period of 1877 it was 4.152,0912. to 4,197,468L, and for the same period of 1877 it was 4,152,09L. As regards the charge the iron sent out last year up to the end of the first quarter was fully 2s. 6d. per ton higher than during the last So far, then, as relates to coal and the other indus tries most intimately connected with it we think we may say that the year has opened out as fairly as could be expected for them, and that our future, despite the war cloud hanging over us, appears brighter than it was in the early part of the year. Masters and workmen acting in concert together will contribute more than any-thing else towards maintaining the position we have in most foreign markets for our best-known staple productions, of which coal and iron form the principal elements.

COAL IN THE UNITED STATES.

The mere presession of abounding natural resources is not suffithe mere presession of abounding natural resources is not eather cient to make a country rich and prosperous. We see this in the case of Turkey, we see this in the case of Spain, and we see this in the case of Virginia. We might, probably, point out a similar re-sult in other parts of the world, but we do not care to extend our observations any further, but prefer to confine our review to Vir-ginia. The Appalachian chain, or Cumberland coal fields, contains the largest carboniferous deposits on the American continent. It is oniferous deposits on the American continent. ins upwards of estimated that West Virginia alone contains upwards of 16,000 square miles of coal lands, principally bituminous, cannel, and gas coal. Besides the coal of West Virginia, there are immense deposits east of the dividing line between the two States of Virginia and West Virginia, lying in the sastern slopes of the Shenandoah Mountain, and in both sides of the ridges lying east of this mountain to the western border of the great valley of Virginia. Eastward from the Kentucky State line, and along the line of the Chesapeake and Ohio Railrand to the Blue Ridge in the valley of Virginia, there are immense beds of superior coking coal, cannel, and other gas coal, as well as anthracite. The Chesapeake and Ohio Virginia, there are immense beds of superior coking coal, cannel, and other gas coal, as well as anthracite. The Chesapeake and Ohio Railroad, going west, enters the first outcrop of the bituminous coal field, near the junction of New River and Meadow Creek, a few miles west of Hinton, and it skirts the New and Kanawha valleys. As feeders to this road some 400 miles of branch track could be made at moderate cost up the Gawley and the Elk rivers. The slopes and side drainage of this field are favourable for coal inclines as that the cost of mining and delivers would be low. Bitn. clines, so that the cost of mining and delivery would be low. Bituminous coal beds are also reached soon after crossing the Allegheny Mountains, going west along the waters of the Cheat and Greenbriar rivers in Preston, Tucker, Randolph, Pocahontas, Greenbriar, and other counties drained by the New and Gauley rivers. This coal reaches

the eastern seaboard via the Baltimore and Ohio Railroad; as much as 70,000 tons are delivered annually by this route, the coal being as 10,000 tons are derivered annually by this route, the coal being held in high esteem in Eastern American cities on account of its gas-producing qualities. A new railroad has been laid out and chartered to extend from Fredericksburg (on tide water) to the coal fields of the north-east counties of West Virginia win Harrisburg, at which point a connection will be effected with the Valley branch of the Baltimore and Ohio Railroad, east and south to Stanuton then connecting with the Chesapeake and Ohio Railroad. branch of the Baltimore and Ohio Railroad, east and south to Staunton, then connecting with the Chesapeake and Ohio Railroad. The road, when completed, will cheapen the transportation of Virginian coal east, south, and west. A large number of mines are now being vigorously worked along the line of the Chesapeake and Ohio Railroad, in the New River region. The production is delivered over inclines, many of which are long and steep to the bottoms of the hills, when it is coked and shipped in large quantities, east and west.

Yet as a whole Virginia is decidedly not a prosperous State She has, indeed, publicly confessed her poverty, and pleaded that poverty as a reason for not meeting with punctuality the interest accruing upon her State bonds. Allusion has been made more than once in this article to the Chesapeake and Ohio Railroad, but from a financial point of view this line is as great a failure as the State of Virginia. Some allowance ought, no doubt, to be made for the fact that Virginia suffered terribly from the Civil War which was waged upon her soil from 1861 to 1865; but this fratricidal contest was brought to a close in April, 1865, and in the 13 long years which have since elapsed the Virginians ought to have recovered from their grievous trouble. But unhappily the "first families of Virginia" are proverbial for their pride, their poverty—at any rate, their genteel poverty—and their indolence. They pay little head to the laws of credit, and the consequence is that their coal wealth remains comparatively neglected, and that they simply vegetate drearily and listlessly as a community.

MINERAL PHOSPHATES.

The value of phosphate as a fertiliser being so well known, it would seem there is not that attention paid to it which might be expected from its value. There are companies formed for the working of almost every description of minerals, but we are not aware of any engaged in the production of our phosphates, neither are we acany engaged in the production of our phosphates, neither are we acquainted with the extent of our deposits of it. That it must be a profitable source of investment may be inferred from the fact that its average value is about 2*l*. 8s. per ton. Phosphate of lime, it may be said, is a mixed material. To two atoms of phosphorus there are five atoms of oxygen, constituting phosphoric acid, but is neutralised with three atoms of lime. Pure phosphate of lime is almost unknown, although some of that obtained in Spain gives as much as 90 per cent of that important fertiliser. The phosphate of lime in England is found in the chalk marl, which is an argillaceous limestone underlying the true chalk, and is taceable under the entire chalk range from Lynn to the south cast of Dorsetshire, and is asstone underlying the true chalk, and is traceable under the entire chalk range from Lynn to the south coast of Dorsetshire, and is associated with the same deposit throughout the entire centre of the Wealden country. In Cambridgeshire and Hertfordshire the bed has been worked for the nodules of phosphate, which are of organic origin. In Wiltshire and Dorsetshire the marls are extensively developed, in some instances being nearly 100 ft. in thickness, with organic remains resembling the fauna of the upper greensand. The actual area of the phosphates has not been determined, but we know that the chalk formation in England extends from Flamborough Head through Norfolk, Cambridgeshire, Badfordshire, and Wiltshire that the chalk formation in England extends from Flamborough Head through Norfolk, Cambridgeshire, Bedfordshire, and Wiltshire to St. Alban's Head in Dorset. Small quantities of phosphate of lime are raised in Montgomeryshire and Flintshire, in North Wales, and coprolites and phosphatic nodules at Royston, Hitchin, Whaddon, Daxford, &c., the average output of the latter being about 250,000 tons a year. The preparation of mineral phosphates for manure is the same as that adopted with bones. The former is generally broken into pieces, and ground between heavy iron rollers into a fine powder, and is then made into superphosphate. In doing so sulphuric acid is used, when the chalk is converted into gypsum. In connection with phosphate of lime in different proportium are In connection with phosphate of lime in different proportions are the phosphates of iron and aluminium. The phosphate of alumi-nium is an important article, and has been largely imported from num is an important article, and has been largely imported from abroad for conversion into alum and crude phosphoric acid, and also into phosphate of soda and alumina. As to our known home supply, it is said that its value was first discovered by the late Dr. Henslow, Professor of Botany at Cambridge, who, on some fossils being shown to him by a farmer, saw at once that they were phosphate of lime, and remarked to the man—"You have found a treasure; not a gold mine, indeed, but a food mine. This is bone earth, which we are at our wits' end to get for our grain and pulse, which we are importing as expensive bones all the way from Buenos Ayres. Only find enough of it, and you will immensely increase the food supply of England." Such is the value of the phosphates that, in addition to our own sup-Such is the value of the phosphates that, in addition to our own supplies, we have imported extensively from Spain, Norway, America, the West Indies, &c. The mineral phosphate can be deprived of all its impurities, and so handed over to our farmers. For this purpose muriatic acid is employed. The mineral being reduced to powder, is treated with a certain amount of acid in a vat, the mixture and the solution being forwarded by a jet of steam from the bottom. By this means the soluble matter is separated from the insoluble, the former containing the whole of the phosphates, and the other the useless and worthless refuse.

the useless and worthless refuse.

Phosphates are raised in some parts of France and on the Continent, but not to the extent they might be were greater attention paid to their development. In the Ardennes, the Meuse, and in the Pas-de-Calais, as in England, the fertilising mineral is found in connection with the cretaceous bads, and in Hainault is found in nodules lying unconformably on the upper of those rocks. The Craie-brune-de-Cipley, which lies below the Malogne conglomerate, is also phosphatic, but is not worked, although those who are acquainted with the locality consider that it could be profitably raised. The deposits are in the upper chalk, consisting of brownish nodules cemented in a calcareous paste with fragments of indurated chalk and fossils. a calcareous paste with fragments of indurated chalk and fossils. As a fertiliser phosphate is now in great request, the supply being far below the demand. That it has all properties attributed cannot be doubted, for we know from those who have devoted marked attention to the subject that phosphoric acid, as well as ammonia and salts of potash, are brought down with river sediment, derived from sewage and other impurities, hence the fertility of deltas and alluvial soils. Seeing that the present consumption of mineral phosphates could almost be doubled in England were there a suffi-ciency at hand, it is plain that there is a large field open for profitable investment in an article that is of the greatest importance to our agriculturists. It would, therefore, be of national benefit were the extent of the deposits even approximately made known to us. Capitalists even at the present time invest in collieries, although they are not paying, and even search for coal in new districts, when they know that more is being raised than is required. On the other hand, there is a new field to which very little attention has been devoted, but which offers every inducement to those who seek for what evidently could not fail to be a highly remunerative invest-ment, and one that would be of the greatest benefit to the country at large by greatly increasing our food supply at a moderate cost.

DEVELOPMENT OF THE CUMBERLAND COAL FIELDS .- It is interesting to find that even at a time when competition between Welsh and Scotch coalmasters has almost driven Cumberland colliery proprietors out of the Irish market that a spirit of development is shown, not only in enlarging the collieries but in utilising the output in new directions. Coke ovens are at work at Flimby manufacturing coke from native coal, and this industry is making such rapid strides that it is confidently expected in a short time a sufficient tonnage of coke will be made in Cumberland to enable makers of iron to secure their supplies from the locality of their works, instead of, as at present, from Northumberland and Dur-ham. The capitalists of the district look forward hopefully to this new branch of industry, and to the beneficial effect it will have on the trade of the district. The St. Helens Colliery Company, Cum-berland, have sunk through a large bed of water, carrying gravel in their No. 2 pit, and it is expected arrangements for working will be

speedily made for both pits. The yard seam has been touched by the Wythemoor Colliery Company, and is intended by them to sind to what is known as the four-foot seam. There are indications of large beds of coal in Cumberland which have not yet been worked, and it seems probable that their development will not be retarded by the want of enterprise.

We are asked to state that in the advertisement of Carn Marth We are asked to state that in the advertisement of Carn Mark Copper Mine, which appeared in the Journal in July and August last year, Mr. Charles Bawden inserted the names of Messrs. Tweedy, Williams, and Co., of Redruth, and their agents Messrs. Glyn, Mila, and Co., of London, as bankers of the company, without their consent or knowledge.

THE AMERICAN SLATE TRADE.—Mr. G. A. Gotwald (Pen Argyle, Northampton, Pennsylvania, Feb. 25) writes—It may not be without interest to your readers to know something of the extent and value interest to your readers to know something of the extent and value of the roofing and school slate exported from this vicinity within the past year. I, therefore, send you the following summary of facts:—Upwards of 20 years ago the vast and rich slate beds at this place first attracted the attention of practical slaters from Cornwall, England. Messrs. Henry Jory, John L. Jory, and Robert Kellow, the partners in the present company of Henry Jory and Co., were among the pioneers in this enterprise; they, together with other, among the pioneers in this enterprise; they, together with other, ascured large tracts of slate lands by purchase and on long lease. Several quarries were opened, and the slate was recognised as equal to the best Welsh and English slate in texture, colour, permanency of colour, firmness, and freedom from mineral admixtures. The home demand consumed the entire product of the quarries, which each year became greater until the financial crash of 1873 seriously affected the trade. During all these years there was no slate exported from here; but, on the contrary, considerable amounts but each year became greater until the financial crash of 1873 seriously affected the trade. During all these years there was no slate exported from here; but, on the contrary, considerable amounts had been imported into the country. In October, 1876, Mr. W. P. Davis and Mr. John Belamy, two English gentlemen connected with the English slate trade, visited this place, and finding that in addition to essentials of quality this slate could be manufactured so much cheaper than in Europe, they contracted with all the proprietor for the entire crop of all the quarries, regardless of amount, and by December, 1876, they already were sending cargoes to England and Germany. Within one year fully 100,000 squares of slate were exported from the quarries within a radius of $2\frac{1}{2}$ miles of this place; the slate sold at the quarries for \$3 per square. The past year history must not be judged as a speculative venture, for there as now on hand orders for all the slate that can be produced during the next 12 months. Another fact, the demand for these slates in not limited to the older Europe in nations, but large quantities go direct to Central and South America, New Zealand, Australia, Japan, China, and other countries. These few facts show that a permanent growing, and profitable addition has been made within the pastyer to the foreign commerce of America. Already proposals are a hand from Liverpool capitalists to run a line of vessels specially a to the foreign commerce of America. Already proposals are hand from Liverpool capitalists to run a line of vessels specially a slate carriers; this is rendered necessary because of the presenting price for freight, and the frequent changes in freight rates. Beside, at least one of these Liverpool gentlemen is one of a company to negociating to purchase the largest quarry at this place. company, besides possessing ample means, also largely controls the European slate trade. The year opens favourably for a wide er-pansion of the foreign slate trade from Pen Argyle as compared with last year. Additional and improved machinery and nearly double the former number of hands will be employed.

GEOLOGICAL SCIENCE, AND THE CITY GUILDS.—The honoray freedom and livery of the Turners' Company was conferred on Prof. PRESTWICH, of Oxford, on Thursday, April 4, and we had intended to publish this week a full report of the proceedings, which were an unusually interesting character, but pressure on our space presents and the processing character, but pressure on our space presents. vents us from doing so.

Bristol. Mining School.—The lecture on Monday next will be on "Coal Cleaning," by Mr. M. Geoffrey Morgans, mining engines, Bristol. Mr. Johnson's lecture, originally fixed for this day, will be delivered next month.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

April 11.-A rather better demand is this week being experient at the colleries where furnace coal is mined, due to a little mo activity in the making of raw iron. In the forge coal department too, a somewhat better state of things exists. The lowness of price is the great drawback in this department, and it is the more serie because the colliers will not do anything either in the shape of cepting lower wages or working longer hours to help their mash to bear up against adverse circumstances. Judging from the ladency which exists to increase the make, there is an improvement in the pig-iron trade. Of the firms who are about to blow in a latency of the latency o nace, Mesrs. Addenbrooke, of Rough Hay, Darlaston, are compecuous. The finished iron trade has not fallen off upon the west and prospects are considered to be a little brighter than they we a few weeks ago. Mr. S. Loveridge, the owner of the Shrubber Ironworks, Wolverhampton, started yesterday some eight puddling furnaces, with the view of working up certain of the castings of the premises.

the premises.

At the Quarterly Meeting in Wolverhampton yesterday no altertion was made in the prices of either pig or finished iron or of colling to the Birmingham meeting confirmed the Westermanpton prices. There was firmness as to all high class into and a few sales were booked for small lots. Common iron weasier. Under 6l. was taken for common bars, and under 7l. mail-sheets. Pig sold tamely. A meeting of tin-plate makers find Wales and elsewhere, representing 100 furnaces, appointed a committee to arrange for reducing the output all round.

Among the novelties exhibited in the Hall was a model of Till patent bot-air chamber for utilising dry oxide cinder bottoms in line.

patent hot-air chamber for utilising dry oxide cinder bottoms in life of sand bottoms for mill furnaces. The invention consists of age ternal casing of cast-iron plates, lined inside with fire-bricks. casing effectually protects the exit hole for the cinders from a air, and a door in the front, raised and lowered at the workmin will, admits a tap wagon, which passes under the interior furnity to the state of th flow in the hot-air chamber, and remains until filled with the flo ing einfer as it exudes. The tap wagon is then withdrawn, and placed by another in less than half a minute. The cinder being most valuable "fettling" known for puddling furnaces, the imperation will be obvious. A working specimen also exhibited of the hand-power rock-drill sinking machine, drilling blast-holes of any required depth and diameter, at any and in a contract of the comprised similar to the comprised similar ways to description of rock, by hand-nower. It is comprised similar to the comprised similar ways the comprised simil in every description of rock, by hand-power. It is comprised sin of an air-tight cylinder, in which a piston is set in motion by lifting cams above. These parts are worked by two men at hand-wheels, giving from 150 to 180 heavy blows per minute hand-wheels, giving from 150 to 180 heavy blows per minute-least four to one as compared with ordinary hand-labour. Mess Cooper and Smith, of the Clarence Works, Morville-street, shows samples and models of their patent non-conducting compositions covering boilers and steam-pipes, and their soluble tannate of soft for removing incrustation in steam-boilers; and Mr. J. S. Most ford, of West Bromwich, exemplified the uses of the electric present the steam of for multiplying autograph letters, circulars, &c.

The Chillington Iron Company (Limited) has held its ammeeting in Wolverhampton, when the report (a summary of with his previously appeared), showing a loss on the year of 9700, presented. The Chairman (Mr. G. J. Barker) explained that actual loss on the year's operations was about 7000. The only had been 19,000 tons, which was only about half the capacity the works. The average price that the company had obtained had been 19,000 tons, which was only about half the capathe works. The average price that the company had obtain its manufacture during the 12 months had been 81, 18s. 1d. I—18s. 7d. per ton less than in 1876. The making of edge to the company had resulted in a profit. A leading sharehold vised the closing of the works altogether rather than the capacity of the company had resulted in a profit. A leading sharehold por was adopted, and the retiring directors re-elected.

It is not a favourable indication that in various districts of

It is not a favourable indication that in various districts of 8 Staffordshire certain of the families of colliers, of ironworkers of other operatives engaged in the metalliferous industries we ceiving weekly relief at the hands of public committees appear

dminist ns of W nd the he under n the lo e has bee y, which fr. C. W. ts Collier ed the that the as also ster, and

ve of the

APRIL

y have b care wil Burley p he iron in the w rs as the which reache a figure dard on sed the of a per lit as at g like th

e, and we with then ng since ch are in ned with then. I future tha

ed its due

the prese

cially to the regardence, and is ed. Bette exemplar ghten the ted and, in pts should ed a good a very difference any attended, to be so ade fairly h introduc r and surf its revival Exhibition in mind appointed

or some y markable ed so much onths has allow of being disc Peevor e PORT FRO

pecially i

king's—has the leading

ril 11.—For disturbances sbelonging ies left thei her men. 3 en engage Several c A collier rles Hend Collieries, last scene i d the curt nas, manager charge of m pril last. (by the prose gallantry, de Witnesses f acter. c tendency of the degenerally hed the way in part of the Transfer Tr

Victoria C cellor Bacon htary windin continued. line, and a seen accorded at the rate of year by the Ve staple trade It is appare e man emplo

result will b

mas, and

administer funds raised for the purpose. In this connection the rns of Wolverhampton and Bilston stand conspicuous. In and und the latter town the drowning out of collieries by the rising the underground flood is a serious matter for the colliers, a large mber of whom are totally unemployed.

In the local stock exchanges the dulness in coal and iron propersontinues. Since my last report the only transaction of importage has been one in the shares of the Cannock and Huntington Colty, which have sold at 9 dis.

In C. W. Wilkinson, the agent of the Harecastle and Woodsts Colliery, has been fined 5/L and costs for not causing to be seed the name, age, and residence of Albert Kirkham, a boy ler 16 years of age employed in the mine. The defence made a that the defendant having appointed a manager had taken sonable means to carry out the Act, and was therefore exonerated. was also shown that it was the duty of the overman to keep the ister, and the overman said he thought the boy Kirkham was

was also shown that it was the duty of the overman to keep the ister, and the overman said he thought the boy Kirkham was sred, and could not account for the omission. Both defences led. ed. ive of the seven pits which were sealed down at the Apedale Col-y have been re-opened by consent of the Government Inspector, y have been re-opened not to open any of the connections with

Burley pit.

be iron and coal trades of North Staffordshire are not altered

n the week, but ironmakers and colliery owners are expecting

ers as the result of the quarterly meeting in Birmingham.

REPORT FROM CORNWALL.

pril 11.—There is then after all a lower deep beneath that lowes pril 11.—There is then atter all a lower deep beneath that lowest owhich we have been all so fondly and earnestly imagining had a reached. Former prices were bad enough, but never in the le recorded statistical history of the tin trade has there been so a figure touched as that to which the smelters put down the dard on Saturday. It is utterly unprecedented, and almost, we hat says, utterly unapproached. However, it does not in the t strike our confidence in the future, nor in the belief so often t strike our confidence in the future, nor in the belief so often ressed that the present depression has far more of an accidental a of a permanent character about it. We do not, it is true, relit as at all probable that the present generation will see any-glike the high prices which ruled a few years since. They are and we can afford to part with them with some equanimity, with them went also a good deal of wasteful expenditure. The rovements which have been effected in the operations of ting since then, under the pressure of stern necessity and these overments which have been exceeded in the operations of the man and those in grince then, under the pressure of stern necessity, and those have in progress, are such that better results could now be ch are in progress, are such that better results bound how be ined with a price 20t. a ton less—and in some cases even 30t.—
i then. This is a most important element in consideration for future that is too often either overlooked altogether, or not ased its due importance. It is all the more needful that its due ght should be insisted upon in times of saddening depression

of the larger mines there has been a reduction of wages, is one of the surface hands. This must be regretted, but it can be regarded as other than unavoidable. The pressure is most re, and is certain to be shared more or less by all parties conbe regarded as other than unavoidable. The pressure is most ere, and is certain to be shared more or less by all parties conned. Better, of course, even poor wages than none at all, and the lence of the adventurers has in many cases been so continuous exemplary that we cannot wonder they should try all they could lighten the burden. But there is one thing especially to be reted and, indeed, to be condemned, and that is that sundry at pts should be making to revive the five-week month. That used a good deal of trouble in its time. It died very hard, and it a very difficult job to get it decently buried. The time has gone for any attempts at its resurrection, even if they were really deale, to be successful now. If there must be reductions let them made fairly and openly, and not under this thinly veiled guise, the introduces a new and most objectionable element of feeling the already quite black enough outlook of many a working her and surface worker. The five-week month was an anomaly, dis revival would be a still greater one.

The date for the opening of the Polytechnic Exhibition at Falbuth has been fixed for the same convenient period as last year. Exhibition itself will open on Tuesday, August 27, the judging ing place on the previous day. This gives as much time as possite to the exhibitors to get their exhibits in order. Only it must be me in mind that the rules as to the reception of articles by the appointed are now strictly adhered to.

Dr. Oxland, F.C.S., well-known throughout Cornwall and Devon, especially in connection with the notable calciner—Oxland and dispress the properties of the Plymouth Institu-

especially in connection with the notable calciner—Oxland and ys—has just been elected president of the Plymouth Institu-e leading scientific society of Plymouth and its vicinity, and of the oldest and most important in the West of England. for some years been the curator of geology and mineralogy

narkable illustration of the vitality of Cornish mining is ded this week by Wheal Peevor, which has at various times ted so much interest and attention. The profit made in the last months has been sufficient not only to pay off the debit balance, to allow of the declaration of a dividend. More tin has been is being discovered by far than is being taken away, and thus al Peevor enters the Dividend List when the standards are at lowest point on record. So much for a good mine and perseverand so much for the resources of Cornwall,

PORT FROM MONMOUTHSHIRE AND SOUTH WALES.

EPORT FROM MONMOUTHSHIRE AND SOUTH WALES.

vii 11.—Fortunately it is a very rare occurrence in South Wales
disturbances take place such as have recently occurred at the coleashelonging to the Landore (Siemens) Steel Company at Cockett,
Swansea. In consequence of a dispute the men engaged at these
eries left their work, and it was found necessary to replace them
ther men. The fresh employees have been intimidated and asted by the old hands, and in consequence a large staff of police
been engaged on the spot, and have succeeded in keeping the
c. Several cases, however, have come before the Swansea magisis. A collier named John Matthews has been fined for assaulting
Charles Henderson, resident manager of the Weigfach and Worter
Collieries, and has been fined 1s. and costs. Three other men
been fined in connection with assaults committed.

charles Henderson, resident manager of the Weigfach and Worlder Collieries, and has been fined Is. and costs. Three other men been fined in connection with assaults committed.

Le last scene in the Tynewydd drama has at length been played and the curtain dropped. At the Glamorgan Assizes Mr. John mas, manager of the Tynewydd Colliery, has been re-indicted charge of manslaughter in causing by his neglect the deaths ertain persons by the flooding of the colliery in the month pil last. On the part of the prosecution it was alleged on the day of the accident a certain "fault" had been passed, precautions not adopted to deal with this. Testimony was a by the prosecution, but all agreed that Mr. Thomas had shown gallantry, determination, and anxiety to rescue the entombed Witnesses for the defence were called, who testified to the character, care, and skill always displayed by Mr. Thomas, tendency of the judge's (Mr. Justice Mellor) summing-up apd generally to be in favour of the defendant, and he connect the way in which the prosecution had been conducted on art of the Treasury, and the jury acquitted the defendant. result will be hailed with satisfaction by the many who know homas, and who have sympathised with him under his misnes.

S. Mo

its anna y of which 9700i., w

The out

1d. pe

icts of So workers,

e Victoria Coal and Iron Company has been ordered by Vicecellor Bacon to be wound up, on a creditor's petition. The
nary winding up of the Great Western Colliery Company has
continued. The Swansea Tramway Company have received the
ficate of the Board of Trade authorising them to open the Morline, and a favourable resolution from the Town Council havesn accorded, the care will at once commence to run. A diviat the rate of 5 per cent. per annum has been declared for the
year by the Vale of Towy Railway Company.

staple trades of the district remain in about the same condiIt is apparent that reductions must take place in the wages
e men employed at the iron and steal works. Prices are low, e Victoria Coal and Iron Company has been ordered by Vice

and masters have necessarily to decrease the cost of production as much as possible. One way of doing this is to reduce wages, and notices to terminate contracts have already been given at two or three of the large works, obviously with this object in view. The men at Landore Steel works have already accepted a reduction, and it does not seem there is any idea now of closing the works, which was at first thought likely. The demand for steel rails is only moderately good, but there appears to be a fair demand springing up for best descriptions of steel. Iron rails are in poor request; and as for bars, they are cheifly absorbed in local requirements. For the foreign markets there is a dull enquiry. Clearances of iron during the week include a large parcel to Peru, as well as shipments to Sweden ane Spain. The tin-plate trade is materially unchanged. There is about the usual amount of work in hand, but prices are low and fluctuating. The coal trade has shown rather less activity during the week, and there is apparently not quite so much doing at the collieries. The demand for steam qualities is moderately good, but prices are not quite so firm, and have not changed for the better. In Monmouthshire at two or three of the local collieries disputes have occurred, and in consequence the pits are idle, and house coals are in by no means good demand, and the patent fuel department is characterised by little animation.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

April 11.—Little or no change has taken place in the state of trade in Derbyshire since last notice. At the collieries the men are still working short time, and a considerable number are under notice to leave, which simply means a reduction of wages so as to equalise them throughout the whole of the county. The moderation of most of the employers, in only requiring a concession to the extent of 5 per cent., has been recognised by the men, so that they have not acted as formerly and struck, but wisely made the best of what could not be avoided. As a rule, they are now working not more than acted as formerly and struck, but whenly made the best of what could not be avoided. As a rule, they are now working not more than four days, and there does not appear to be any sign of an improvement taking place, but rather the contrary, for the fine weather must inevitably affect the consumption of house coal in particular. More than ordinary interest is now centred in the trade with London from Derbyshire and Yorkshire owing to the position of the two leading railway companies—the Midland and Great Northern—who enjoy the monopoly of the traffic of those counties, and who have striven, and with some success, in keeping the Great Eastern from getting into the Yorkshire coal field, seeing that it would lead to a reduction

TRADE OF THE TYNE AND WEAR.

April 10.—Although the depression which has so long been experienced in connection with the Coal and Iron and most other trades has not passed away, there is considerable activity to be noticed in the shipping trade on the rivers; the import trade is increasing, and large deliveries have been made of late of timber from Sweden and the Baltic. There is also a good demand for Spanish iron ores and lead and else for Espants for paper, making. The expert trade and lead, and also for Esparto for paper-making. The export trade is also pretty brisk, and there has been a good demand during the week for steamers and sailing ships, and freights are improving. A is also pretty brisk, and there has been a good demand during the week for steamers and sailing ships, and freights are improving. A very dull trade, however, is doing with the East and with Germany. The Coal Trade in Northumberland is still the worst in the district, and it would appear that apart from the depression in trade the markets throughout the world are very much overstocked with steam coal. It is evident that too many pits have been opened and too much of this coal thrown into the market. The pits in the steam coal district are badly emplyed, and the men are turning their attention to emigration; this movement has, indeed, been going on for a long period, but increased attention has been given to it of late, and clubs have been commenced in some localities in order to assist in this object. In Durham the works are certainly, on the whole, better employed than in Northumberland, yet there are many complaints of dulness. In house coal there was a spurt of short duration, which appears to have subsided. Gas coal works are best employed, some of them being engaged full time, but the demand for coke at present is very moderate, and coalworks in Durham are still being closed. The Tremdon Colliery has been stopped again, and also the Threslington Colliery. In the west district one of the pits of Mr. J. Bowes, the Depton Colliery, has been atopped. The adjourned enquiry into the cause of the explosion at Wheatly Hill Colliery was held on Thursday, and from the evidence given it appears that two shots had been fired and the explosion occurred immediately afterwards; it is, therefore, probable that the gas had been fired by the shots, as safety-lamps were used by the men, and the man who had charge of the shot firing appears to have failed in detecting the presence of gas. Two men lost their lives by this explosion, and several others were more or less injured. After a good deal of evidence had been adduced the jury returned the following

plosion, and several others were more or less injured. After a good deal of evidence had been adduced the jury returned the following verdict:—"We agree that the two men came to their deaths by an

plosion, and several others were more or less injured. After a good deal of evidence had been adduced the jury returned the following verdict:—"We agree that the two men came to their deaths by an explosion of gas in in the main coal seams, but there is not sufficient evidence to show where the gas came from." This case shows that even when safety-lamps are used and shot firing is allowed there is great danger of explosions, and the greatest care ought to be taken by those entrusted with this very onerous duty. The question has often been discussed as to what class of men should be entrusted with the duty. The question, however, is a very difficult one, and it is likely that the use of safety-lamps and shot firing will occupy the attention of the Legislature shortly.

That remarkable undertaking, Whitburn new winning, is likely to be completed in a satisfactory manner. The Belgian system of boring through water-bearing strata has now been in operation some time, and although many difficulties have been met with good progress has been made lately. A bore 5 ft. in diameter has been put down in the centre of the shaft, and this has been carried down below the water-bearing strata into the shale. It is expected that this will be the limit of the bore, and that it will not be necessary to carry it further. The great task, however, is to be accomplished of making a larger bore upwards of 14 ft. in diameter, and this operation is now in progress. When this is completed to the same depth as the 5-ft bore the cast iron tubbing is to be inserted. This tubbing is 12 ft. in diameter inside; it is cast as a ring the full size, the circle inside the metallic ring will, of course, form the shaft when completed. Those rings, at least many of them, have been cast at the Elswick Ironworks, and their weight is from 6 to 8 tons each. Those rings will be screwed together and lowered down the shaft, and when this is completed only the water inside this tubbing will required to be pumped out. All this is expected to be accomplished i

The Iron Trade continues extremely quiet. The Quarterly Meeting was held at Middlesborough on Tuesday, and there was little doing. Prices do not show much alteration. Makers are, however, very firm in keeping up to the quotations. With few exceptions doing. Prices do not show much alteration. Makers are, however, very firm in keeping up to the quotations. With few exceptions these rates are firmly adhered to—No. 1, 43s. 6d.; No. 3, 40s.; No. 4, 39s. Although less iron has been made stocks are increasing, and makers' stocks at the end of March were 237,296 tons, the total stock being 343,749 tons. The shipments last month were large. The furnaces in blast have been reduced to 96,17 of these being engaged on hematite, &c. The fear of war still has a bad effect on the manufactured iron trade. The plate trade is conveyable quiete. Prices factured iron trade. The plate trade is somewhat quieter. Premain 61.5s. to 61.7s. 6d. There is no change in the bar trade. remain 60. 5s. to 60. 7s. 6d. There is no change in the bar trade. The decision on the wages question is expected to be given in about a week by Mr. D. Dale, the arbitrator. The masters seek a reduction of from 10 to 17 per cent. in wages. There were some exhibits in the hall of the Exchange. Mr. R. O. Heslop, of Newcastle-on-Tyne, exhibited Cockburn's patent iron tubular barrows for pig metal, slag, scrap, or hot ashes, the peculiarity of which is that the frame

of the barrow, which also forms the handles) consists of a strong tube bent to shape required; great strength and durability are thus obtained. The same exhibitor, as representative of Craig and Donald, obtained. The same exhibitor, as representative of Craig and Donald, Johnstone, showed a large photograph of a powerful scrap-cutting machine, equal to cutting a section of 4-in. square iron. It is specially designed for plate scrap, having a gap of 18 in., with steelings 2' 4" long, and 2\frac{1}{2} in. thick. The slide having a lift of 7 in., admits taking in such special scrap as boiler ends, bridge ends, or the heaviest class of rails, tyres, or puddled bars. Accompanying this were two photographs of a very heavy plate-shearing machine, with shears 12 ft. long, and capable of shearing at one cut a plate 10 ft. long by 1\frac{1}{2} in. thick. This tool is driven by an engine placed on the top, so as to admit a clear way through the machine for long plates which can be passed between the cheeks of the machine. Mr. Heslop also exhibited specimens of Knight's sheet-iron, 37 wire gauge, which attracted considerable attention by their mest perfect finish and extreme thinness. Much interest was attached to the improved locomotive coupling (Harrison's). The coupling apparatus is moved by the engineman's foot, and it is a clever and valuable invention. Wrought steel nails made by Jones Brothers and Co., Ayrton Nail Works, Middlesborough, and also some cut nails, were shown by the same firm. Young, Dance, and Co., Newcastle, showed specimens of fire-bricks and pipes. fire-bricks and pipes.

REPORT FROM NORTH WALES, SALOP, AND CARDIGAN.

April 10.—The attention of sanitary reformers is being increasingly directed to the condition of the populous mining towns and villages of North Wales. The Medical Inspector of Health for Anglesey says of Amlwch—"The want of a local authority is much felt. The water supply, except from badly-constructed wells, is quite inadequate, especially in summer, and the character of the water as shown by analysis is highly polluted. The drainage and privy accommodations are very defective." Then Trefrhiw, the home of many of the miners on the the mountains with the modern name D'Eresby, is to be thoroughly drained and supplied with pure water. A complaint has recently been made in the Welsh newspapers of the disorderly conduct of the Cornish miners who have been brought over to Llanrwst. The Cornishmen reply by saying that nearly all of them are members of Christian societies, and the charge is a false one. The low price of lead checks mining adventures in the Principality, and reduces the dividends of good paying mines seriously. Thus at the Van Mines the decrease in the value of the lead lessened the sum available for dividend by 14,000l., and the dividend of the Roman Gravels was reduced to a minimum. "Still hope springs eternal in the (mining) human breast," and it is marvellous the premium even now set upon the shares of non-dividend mines in North Wales and Cardigan. Might I suggest that "Caractacus" should add to his pleasant topographical description of the Montgomery-shire and Cardiganshire mines a few more stratigraphical and mineralogical features, such as the nature of the strata passed through, the width and character of the lodes in each their earthy and merhalogical features, such as the nature of the strata passed through, the width and character of the lodes in each their earthy and merhalogical features, such as the nature of the strata passed through, April 10.—The attention of sanitary reformers is being increasingly and to his pleasant topographical description of the Montgomeryshire and Cardiganshire mines a few more stratigraphical and mineralogical features, such as the nature of the strata passed through, the width and character of the lodes in each, their earthy and metallic mineral contents, together with the arrangement of these. Such particulars would give distinctness and scientific value to his otherwise interesting letters. A step in this direction was made last week by your correspondent "Exploro" in his account of the Flat Measure of Denbigh and Flint. A further description of the upper and lower flats, with the thickness and character of the strata between, would be of interest to many readers of the Journal.

The shipping of the Merionethshire slates at Portmadoc has revived, but the Carnarvonshire quarryowners are taking advantage of the lull to try for a reduction of 10 per cent. in the men's wages. It is doubtful, unless trade gets worse, whether they will be able to carry their point. A gold mine of Merioneth is to be wound-up. The Clogau holds on its way, and it would be satisfactory if with careful mining and good appliances some of the lodes north of the Barmouth estuary could be systematically and successfully worked. Many foreign quartz lodes do not contain a higher percentage of gold than some of these.

In his speech at the meeting of the Institution of Civil Engineers.

gold than some of these.

In his speech at the meeting of the Institution of Civil Engineers
Mr. Gladstone, in referring to the attempts now being made to construct a tunnel between England and France, referred to the proposed tunnel under the Mersey, and the advantages which its construction and a railway in connection with it would confer upon Liverpool, Birkenhead, and the mineral industries of North Wales.

The tunnel and the railway are among the useful works of the future.

The tunnel and the railway are among the useful works of the future.

Mr. Matthew Francis, manager of the Wern Colliery, Bagillt, was
fined 51, and costs at Holywell last week for not seeing that the
firemen "before the commencement of each shift left in each workfiremen "before the commencement of each shift left in each working place, and as near the face as practicable, some well-known mark of safety or dangers, as the case may be, as evidence of his having examined the working place." Mr. Francis said he had delegated this duty to others, for whose neglect he had to suffer; the foreman was also fined. A sale which had been announced of the plant of the Brynkinallt Colliery, near Chirk, has been withdrawn. I am sorry, nevertheless, to see that a petition is presented for the winding up of the concern. The colliery has recently had two new shafts put down, and a siding constructed to the Great Western Railway, so that it seems a pity that as soon as the colliery has got into good working order it should get into legal troubles. The ironworks have a very deserted look, the output of the Frwdd Works, near Wrexham, being 3000 tons for the last quarter—only one-tenth of their capabilities. their capabilities.

their capabilities.

The action brought by the county surveyor of Montgomeryshire against Mr. Savin for the purpose of preventing the passage of the traction engines over a county bridge at Llangynog has failed. The trial came off at the Chester Assizes last week. The judge refused to grant an injunction, and a juror was withdrawn.

REPORT FROM THE FOREST OF DEAN.

REPORT FROM THE FOREST OF DEAN.

April 11.—The sale of Parkend Tin-plate Works, which was considered as effected at the date of our last report, did not turn out to be so, notwithstanding that there seemed no reason to doubt the reliableness of the source of our information. It appears that the vendee at the last moment, upon considering the railway expenses of traffic to and from his colliery between Hawkwell and Parkend, found that they would constitute a serious item, sufficient in a series of years to result a sums that would pay for the erection of tin-plate works at or near the colliery referred to. And this consideration led Mr. Chivers to hesitate completing the purchase. The matter, however, is not as yet (though so reported by some) finally abandoned, though it is impossible to say at present how the negociations will finally terminate—whether in a sale or not. Should the vendor make a liberal concession as to the price, it is quite possible that the sale may be effected after all, but possibly a pause of some length may intervene. But for the present, at least the hopes of the famishing workpeople in and around Parkend are disappointed, which, of course, is a matter of regret.

The coal trade, although it waries somewhat, remains in a very unsatisfactory state, and the consequence is that the colliers are only upon part time, with the exception perhaps of one or two pits, which, on the whole, furnish more regular employment. At three out of five of the principal pits on the eastern side of the Forest the men are now working at a reduction of 5 per cent. on their wages, and this reduction applies to some of the principal pits on the eastern side of the Forest the men are now working at a reduction of 5 per cent. on their wages, and this reduction applies to some of the principal pits on the eastern side of the forest the men are now working at a reduction of 5 per cent. on their wages, and this reduction applies to some of the principal iron mines, the iron trade being still in a very sluggish state,

almost continually. The Forest Vale Ironworks, however, are an exception to runs statement, as since the transatiantic order was proposed they have been kept going pretty well, as small orders have followed each other in pretty good succession. Now the firm has received an order for 100 tons fron for screws. It would, however, be much more satisfactory to the firm in this district if a formal agreement were entered into for a definite time, instead of piece-meal fashion as at

ment were entered into for a definite time, instead of piece-meal fashion as at present.

Unionism is at present at a low ebb here, very few members at present belonging to the Union, and the agent is about to be dispensed with. The men will never forget his leading them into the strike by telling them that the Amalgamated Miners' Association had plenty of shot in the locker, when at the same time it was insolvent! Some retain their condidence, but the great majority lost faith in their leaders, and the men have never since then been at one with the Union. Billi, it is exactely likely that unionism will become defunct with the dismissal of the agent, notwithstanding that prophecies have already appeared in print to that effect. Many of the colliers and iron miners have lost faith in unionism itself, no doubt, but more have lost faith in the agent, on the ground that they have too often been led into error by him. And it is exertain that he cannot grang the relative and equitable bearing of capital and labour, and therefore his counsel and advice have often been wide of the just mark and medium. The men's eyes, as a rule, are even now only partly opened, as many still think that wages ought to be ruled irrespective of profits on trade, which of course is in opposition to common states.

The Forest distress is very extensive and alarming, and is becoming very painful on the East Dean side, which hitherto has not been so bad as the West

Dean side, although many have long been suffering in East Dean. The Whinsey and Mitcheldean Road line, it is said, has passed into the hands of the Great Western Railway Company, and it is expected that work will shortly be resumed on it, with a view to its completion.

THE MANUFACTURE OF DYNAMITE.

Supreme Court of Judicature, April 4 and 5-Court of Appeal.

Bupreme Court of Judicature, April 4 and 5—Court of Appeal.

THE BRITISH DYNAMITE COMPANY V. MESSRS, KREBS AND CO.

This was a suit originally brought by the plaintiff company against the defendants, Messrs. Krebs Brothers and Co., of Cologne (who are the manufacturers of the explosive compound lithofracteur), and against their agents in England, for an infringement of the patent in this country. The patent on which the plaintiffs relied, and which they complained was being infringed by the manufacture and sale of lithofracteur, was taken out in 1867. The cause was heard before Mr. Justice Fry in June last year, when his Lordship held that the defendants had to some extent made use of the plaintiffs invention, and that the plantiffs were, therefore, entitled to an injunction, with an account of the profits.

On the appeal, the Attorney-General, Mr. Macrory, and Mr. Fielding Nalder appeared for the appellants, and Mr. Aston, Q.C., Mr. E. Cutler, and Mr. Chester for the Dynamite Company. The Attorney-General opened the proceedings on behalf of Messrs. Krebs and Co., praying a reversal of the judgment of the Court below, on the grounds that the instructions contained in the patent of 1867 were insufficient and that the claim was too wide; that it was, in fact, what is known as a roving patent.

Mr. Aston then proceeded to argue the case on behalf of the

cient and that the claim was too wide; that it was, in fact, what is known as a roving patent.

Mr. Aston then proceeded to argue the case on behalf of the Dynamite Company. At the conclusion of the learned counsel's arguments on the second day of the hearing.

The Master of the Rolls, without calling on the Attorney-General to reply, said that although, on the one hand, a Judge must not be astute to defeat a patent, yet, on the other, he must not extend a patent so as to cover that which was not then discovered. The question here was whether the alleged discovery was reduced to that form and described in such terms that a competent workman taking the specification into his hands would be able to manufacture the article, the subject of the patent, without any experiment. In his opinion in all these respects the specification failed in complying with the necessary conditions, the instructions were insufficient, and the claim was too wide, and he thought the order of the Court below should be discharged, and the bill dismissed with costs.

Lord Justices James and Thesiger concurred. They thought that on both points the judgment of the Court was wrong, and the appeal must be allowed.

THE YNISCEDWYN COMPANY.

THE YNISCEDWYN COMPANY.

We referred to this company in last week's Journal as one deserving the attention of the investing public. The property itself is of very considerable extent, comprising 3500 acres of minerals, including coal, iron, fireclay, and limestone. The coal measures yield various qualities, including the best anthracite coal, the demand for which is very large, and continually growing, both for manufacturing and steam purposes. One of the peculiarities of the best anthracite coal is that it adapts itself specially to the manufacture of the highest quality of iron and steel, a recommendation in itself which at all times, and especially now when the commoner makers of iron are being entirely superseded by the better material, will ensure a large and ready sale for this class of fuel.

The iron and steel formerly turned out at these works is world-known as being equal, if not superior, to that manufactured at any other works, while the furnaces are capable of producing a larger yield than any others at which the same class of coal is used. The steelworks can produce the highest quality of Sheffield or tool steel, worth 600, per ton, for which there is a large demand, while the supply is small. All the works are in perfect order, and a return can, therefore, be made at once. An important feature in connection with the Yniscedwyn Company's property is its situation—within 13 miles of the large town of Swansea, which is the chief shipping port of South Wales, and being directly connected with the Great Western, the London and North-Western, and the Midland Railways, it is in a position to command all the best markets for its produce, and, indeed, to send it to all parts of England or of the world.

With what seems to us a very moderate estimate of the profits, it

the world.

With what seems to us a very moderate estimate of the profits, it is calculated that the coal and iron will return over 11,500\(\text{L}\) per annum, which, allowing for all charges, will admit of dividends of 14 per cent, on the capital of the company; and considering that something like a quarter of a million of money has been laid out on the property, and that it is valued by Messrs. Daniel, of Swanses, one of the best known and most highly respected firms of engineers in the kingdom at 137,472\(\text{L}\), the estimate of profit appears a very cautious one. In fact, the former owners paid large dividends. an the kingdom at 137,4727, the estimate of profit appears a very cautious one. In fact, the former owners paid large dividends, amounting at one time to 50 per cent, upon their capital of 100,000%, and the new company should, therefore, have little difficulty in extracting considerably larger profits than the prospectus promises. Indeed, we shall be much surprised if those who invest in the Yniscedwyn Company's shares do not reap an income far in excess of that anticipated.

THE SCOTCH MINING SHARE MARKET-WEEKLY REPORT

AND LIST OF PRICES.

During the past week the tone and result of the important debate in Parliament—as well as the evidently pacific nature of the Russian Chancellor's reply to our Foreign Secretary's despatch, though it may be considered doubtful if the latter represents the true state of may be considered doubtful if the latter represents the true state of Russian opinion, or is simply a matter of policy—have both lead to a more hopeful view being taken of the political situation. Prices are generally higher, but business continues on as small a scale as ever. The Board of Trade Returns for March are still unsatisfactory as regards imports, but exports, being practically the same, must be considered satisfactory, taking into account the restriction trade must have suffered from the state of politics. The usual fortnightly settlement is now in progress; particulars of the continuation business done are given below—transactions now entered into are for settlement April 29.

pointies. The usual fortainty sectement is now in progress; particulars of the continuation business done are given below—transactions now entered into are for settlement April 29.

In shares of iron and coal concerns the principal movements are an advance of 7s, 6d, per share on Bolckow, Vaughan, A, with a decline of 5s, on Chillipton Benhar are now quoted ex div. Chapel House shares are neglected, but more business has been done in the 7½ per cent. debentures. Bolckow, Vaughan, and Company have receded from the North of England Iron Trade Board of Arbitration, being resolved to settle their own wages disputes in future by themselves; this may be taken as showing the masters are again getting control of the workmen, and will it is hoped lead to a sounder state of trade. At the sixth annual meeting of the Chillington the report given in last week's Journal was adopted, and the retiring directors re-elected. Nothing new transpired beyond that the Chairman said the year's output had only been 19,000 tons of finished iron, which was but half the capacity of their works. The average price realised had been \$6.18s, 1d. per ton, which was just about half the price it was when the company as formed. The Scottish Australian Company's sales of coal for January amounted to 14,457 tons.

In shares of foreign copper concerns, Tharsis (new) have advanced 10s, per share, and the old shares 7s, 6d, each, while Rio Tinto 5 per cents. are reduced 30s., and the 7 per cents. 29s., to approximate with the London quotations. The

In shares of foreign copper concerns, Tharsis (new) have advanced 10s. per share, and the old shares 7s. 6d. each, while Rio Tinto 5 per cents are reduced 30s., and the 7 per cents. 28s., to approximate with the London quotations. The report issued by the Tharsis Company, and which is given below, is considered very satisfactory, as it is evident so productive a mine, and which can pay so good a percentage in the present dull times, when nearly all the other concerns are making losses, is an investment which rests on a sound basis. The monthly advices just received from the Yorke Peninsula Company's property are considered good; the stock of ore on Jan. 31 was 300 tons of 17 per cent. and 610 tons of 5 per cent. dredge, together worth (say) 3300l.; 200 tons were being shipped to this country. Huitaful are at 75s. to 85s. New Quebrada, 32s. 6d.

In shares of home mines, tin shares are most in request, the market for that metal being relatively the firmest. Copper shares neglected. There is also some enquiry for lead shares, although the price of lead itself offers no inducement to invest in such shares. The principal mines, Great Laxey and Van, would respectively yield 10 and 8 per cent. to investors at present quotations, basing the calculations on the dividends last paid. Leadhfills and Roman Gravels are firm, as the present prices include the dividends—namely, on the former 3s. per share, pay-able April 17; and on the latter 6s. per share, payable April 17; and on the latter 6s. per share, payable April 17; and on the latter 6s. per share, payable April 17; and on the latter 6s. per share, payable April 17; and on the latter 6s. per share, payable April 17; and on the latter 6s, per share, payable April 17; and on the latter 6s, per share, payable April 17; and on the latter 6s, per share, payable April 17; and on the latter 6s, per share, payable April 17; and on the latter 6s, per share, payable April 17; and on the latter 6s, per share, payable April 18; its understood the shares of the Lossiemouth Losd Mi

Glasgow. The property is the most celebrated in the anthracite district, and it has been acquired under very favourable circumstances. For many years the former proprietors made large profits, some of which exceeded 30,000. a year, and the whole being on the most modern and approved principles, profitable working may be carried on even in bad times. It is calculated that this will be the case with the present company, which calculations are supported by careful investigations made by competent parties during the last eight months as to the correctness of the leases, statements, at d profits of the former proprietors. The capital is 60,0001, in 10l. shares.

WEST PATELEY LEAD MINES (Limited).—This company, to which attention was directed some time since, is opening out very well. The extraordinary richness of the neighbouring mines, and the length of time they have lasted, with the almost certainty of their lodes continuing through this company's property, indicate that it is a property of no ordinary value. The lodes are numerous, soft and easy to work; also the lead almost pure, and requires little dressing. The capital—20,0001,—is so moderate it is probable the regular and increasing returns henceforth to be made will show a very profitable result.

THARSH SULPHUR AND COPPER COMFANY (Limited),—The following are the principal contents of the directors' report to be submitted to the ordinary general meeting of shareholders on the 18th inst.:—The interest on the second issue of 150,0001. debentures has been charged to interest and discount ascount, as usual. A special resolution is to be proposed enabling the directors, as they consider most expedient, either to reissue or pay off these securities as they become due. The total amount of debentures is 25,0001. The net surplus from the downward traffic, after deducting, as usual, the interest on the first issue of debentures of 100,0001, is 15,0902, and the net surplus from the upward traffic, after deducting, and then the surplus from the upward traffic, after de

pear's account, amount to 165,586%, from which a dividend is recommended to be paid of 175 per cent., free of income tax, the first half being payable on \$25,500, be carried forward to the credit of the year 175. The stocks in trade in Britain are valued at a reduction of 55,646, and those in Spain also at a reduction of 59,646, and those in Spain also at a reduction of 59,646, and those in Spain also at a reduction of 59,646, and those in Spain also at a reduction of 59,646, and those in Spain also at a reduction of 59,646, and those in the spain of the profit and lose, in addition to the charge against the cost of production in Spain. The miscellaneous assets have been written down 6900. The additions to the works and plant account for metal works in this country is 505%, of which 720%, was span in the purchase of the freehold of additional land for the works at Witnes, which has enabled the company to obtain a connection with the Middines, which has enabled the company to obtain a connection with the Middines, and the stock of the spain of the spain and has otherwise greatly added to the accommodation and convenience of the works. All the repairs have been charged to revenue as usual, and 12,4674, written of flor depreciation (5 per cent.), showing a reduction on 118, 2604, the Works. All the repairs have been charged to revenue as usual, and 12,4674, written of flor depreciation (5 per cent.), showing a reduction on 118, 2604, the directors and additors consider that 5 per cent. is now ample.

The total quantity of pyrites invoiced to customers for the year was 229,869 tons, against 230,100 tons in 1576. No change took place in the price of sulphur. Both the company had, however, to contend with a falling market during the whole course of the year. The iron ore produced in 1577 was 189,042 tons, and 199,645 tons were delivered to customers; these figures compare with 175,945 tons and 139,745 tons re-pectively in 1576. The total traffic on the rule works and the produced traffic and the produced traffic and

that the reservoirs may be re-stocked; otherwise the cementation processes will be interrupted.

As the meeting will be held next week, there is little occasion to remark in the meantime on a report so clear as the Tharisis Company's always is. The year 1877 has again marked a period of severe commercial depression, showing no improvement on the two previous years, but, on the contrary, increased inactivity in business. Probably at no former time have chemicals and metals ranged so low in price; and the products of the Tharisi Company—viz., copper, sulphur, and iron—have formed no exception. In these circumstances, the results detailed in the foregoing report must be considered satisfactory. In regard to the future, it is very probable that good results will come out of the agreement recently concluded between this company and the representatives of the San Domingo and Rio Thoo Mines; but, even allowing the depression of trade increases in severity, the inexhaustible productiveness of the mines prove that a large dividend always can be paid so long as copper is a marketable commodity, while the sound system of finance the concern has been worked upon will gradually tell with more effect. Those who may wish to examine the company's progress in late years can refer to the annual reports given in the Journal of April 24, 1875; April 22, 1876; and April 21, 1877; all of which are so arranged as 'to render comparison with the report now given very easy.

J. Grant Maclean, Stock and Share Broker.

Pust Office Buildings, Striing, April 11.

SOUTH DARREN.

FOR SALE, FIFTY fully paid-up SHARES, at 40s. per share.—The mine is making a good profit, and will soon do even better. Address, Mr. C. E. Connwall, 73, Balfour-road, Highbury New Park, N.

TO BE LET FOR A TERM, THE OLD NORTH BUCKLAND IRON MINES, GEORGE HAM, BARNSTAPLE, DEVON.
For particulars, apply to Mr. John Litson, Countibury, Tynmouth, Devon.

MOUNTAIN of SUPERIOR FIRE-CLAY FOR SALE .-An EXTENSIVE SETT, and quantity proved to be practically inex haustible. Open quarry working, and no sinking. The clay is of exceptions quality; makes the finest white Dinas silica brick, also a brick equal to Stout bridge; also excellent cement. Contiguous to excellent shipping port and rail An stible.

way station.
WILL SELL the WHOLE or PART, or arrange with a COMPANY for PART
CASH and SHARES. Bona fides only treated with.
Address for further particulars, "Fire Clay," care of Henry Greenwood, Advertising Agent, Liverpoel.

R. TIMOTHY HUG MINING AGENT AND SHAREDEALER, 59, SEEL STREET, LIVERPOOL Reliable information given respecting Welsh and Manx M R. HUGHES.

PRINCE PATRICK MINE.

New Issue of 12,000 Preference Shares.

T. H. strongly recommends his friends and the public to secure an interest at once in this very valuable mine while the shares can be obtained under such accounting interests. Tayourable circumstances.

Bee report in Supplement to Mining Journal, March 9th, also advertisement in Journal of March 16th.

M INES OF EVERY DESCRIPTION, AT HOME AND ABROAD, CAREFULLY INSPECTED and VALUED.

Address, Masshall and Co., St. Antholin's Chambers, 26, Budge-row, Cannon-street, London, E.O.

TO MINING COMPANIES AND OTHERS.

TO MINING COMPANIES AND OTHERS.

VALUABLE MINING PROPERTY TO BE LET.

A VALUABLE MINE OF LEAD AND COPPER ORE having been discovered at WOODLANDS, CLONSILLA, near DUBLIN in SONR to INSPECT it, with a view to making arrangements for LETTING is.

Mistrice and the state of the stat

SAME.

Mining operations have already been carried on to an extent sufficient to stort that the lodes of both lead and copper are most promising, and the situates peculiarly advantageous for working the mine and for carriage of ore both by canal and rail.

Mr. Thomas Poole, the steward of Woodlands, Clonsilla, will show the ground to persons desirous of inspecting the same on their producing a reference loss any respectable merchant or firm.

THE OWNER of an EXTENSIVE COPPER CONCESSION (similar to Lake Superior), situated in an Island in the Mediterrane NOW AT WORK, and held from the French Government on most favourable terms, OFFERS ONE-FOURTH SHARE to PERSONS WILLING to ADVANCE progressively £12,000 for the FURTHER DEVELOPMENT of the SAME. The fullest information, as well as plans, ...aps, specimens, reports, &c., wills furnished by applying to C. HARCOURT, Esq., solicitor, 19, King's-road, Bedise, row, London, W.C.

EXTENSIVE LEAD MINING PROPERTY FOR SALL, in NORTH WALES, with DRESSING and other MACHINERY etest, and ready for full operations. Price £2500, of which sum a large proportion may remain on approved security or joint interest taken with the purchaser, Address, W. Liddall, 15, Union-court, Old Broad-street, London, E.C.

SEVEN PER CENT. PREFERENCE SHARES,

THE COTTON POWDER COMPAN (LIMITED).

OFFICES,-23, QUEEN ANNE'S GATE, LONDON, S.W. WORKS,-FAVERSHAM, KENT.

Capital £60,000, in 12,000 Ordinary Shares of £5 each, of which 5041 remain to be issued. Issue of 3000 Shares, bearing a Preference Dividend of Seven per Cent., pursuant to Special Resolution.

£1 to be paid on application, £1 10s. on allotment, and the remaind in two equal instalments of £1 5s. each, on two months' notice being given of the intention to call up the same respectively.

DIRECTORS,
J. RAMSAY L'AMY, Esq., F.R.S.E.—CHAIRMAN,
R. H. WALLACE DUNLOP, Esq., C.B.
Colonel W. NASSAU LEES, LL.D., Ph.Dr.
EDWARD W. LANE, Esq., M.D.
Com.-General R. M. GARDINER.

MANAGING DIRECTOR—R. M. GARDINER.
BANKERS—Mesers. WILLIAMS, DEACON, and CO.
SOLICITORS—Mesers. TILLEARD, GODDEN, and CO.
AUDITORS—Mesers. SMART, SNELL, and CO.

This company has been in operation since November, 1875, to manufacturers of a powerful and safe explosive, known as Tonits, or Cotton Powder, which is now extensively used in Mines and Quarries, also for Submarine Work,

TORPEDOES, FOG SIGNALS FOR TRINITY HOUSE SERVICE,

Co., and is rapidly gaining ground in the market.

The directors are authorised to issue the above-mentioned preference shares for the purpose of paying off a debenture debt, and for increasing the company's business. Subscriptions are invited

for increasing the company's business. Subscriptions are mass accordingly.

For further particulars, see full prospectus, to be had at the bankers, 20, Birchin-lane, E.C.; the solicitors, 34, Old Jewry, EC; and the company's offices, 23, Queen Anne's Gate, S.W.

Note.—Persons wishing to subscribe are referred to the prospectus, which will be forwarded to them free on application, and which contains all necessary particulars, and specifies the name and dates of the parties to all existing contracts.

_			AD					
Date.	Mines.	Ton	5.	Price	per	to	E.	Purchasers.
								Walker, Parker, & (
	ditto							ditto
-	ditto	50	*******	10		0		Panther Lead Co.
_	ditto	29	*******	10	13	0		ditto
-	ditto	22	*******	10	13	6		Jacob Walton and 0
_	ditto	9	*******	10				Walker, Parker, and
6-1	West Wye Valle	y 60		10	10	6		Weston, Son, and Co
	De Broke				8	0		Panther Lead Comp
-7	Talargoch :-							
	Maesyrewdd	lu 80	*******	. 11	11	6	*****	Walker, Parker, and
	Coetia Llys	30	*******	. 11	18	6	*****	ditto
-	North Hendre	100	***!***	. 10	8	6		Adam Eyton.
_	ditto	80		. 10	7	0		Sheldon, Bush, and
-	ditto (roun	d) 2)		. 13	0	0		Walker, Parker, &
_	Gorsedd & Merl				15		*****	
	East Pant Du				5	6	*****	ditto
	Prince Patrick .				15	0	*** **	ditto
	Grosvenor				7		*****	
	Victor				5		*****	
	Rhyd Alun				2			
_	Wagstaff	10		. 7	15	0		Adam Eyton.

		BL	END	E.		
Date.	Mines.	Tens.	Price	per	tem.	Purchasers.
April 5-M	ipera	92	£ 4	1	0	Kenrick and Son
- d	itto	32	3	18	0	ditto
- d	itto	37	3	11	0	Vivian and Sons
- d	itto	26	4	2	0	Kenrick and Son
- d	itto	27	3	11	0	Vivian and Sons
	largoch			12	6	Kenrick and Son
- d	itto	50				ditto
	itto		9	. 0	0	ditto
	itto		\$	8	6	Vivian and Sons Dillwyn and Co.
	itto		\$	8	6	Dillwyn and Co.

COPPER ORES.

Mines. Tons.	Pro	duce.	Pr	ice.		Mines. Tons, Produce. Pr
Betts Cove 130		534	£3	1	6	Tan-y-Bwlch 60 1434 28
ditto129		53/4	3	1	6	
ditto129		53/4	3	1	6	
ditto129		53/4	3	0	0	
ditto143		81/8	3	2	6	
ditto143		61/8	3	3	0	
ditto105		61/8	3	2	6	
ditto 93		6	3	3	0	Berehaven 93 9½ 5
ditto 93	******	614	3	3	0	
ditto128		614	. 3	4	6	ditto 21 42¼ 44
ditto128		614	. 3	4	6	ditto 6 21 11
ditto128		61/4	. 3	6	6	ditto 5 5234 31
ditto128		614	. 3	6	0	Copper Reg. 10 23 13
Beville129		55%	. 2	10	6	ditto ore 9 1814 1
ditto129		51/2	. 2	11	6	ditto ore 9 15½ 10 ditto matt. 6 15½ 10
ditto129	******	51/2	. 2	10	0	Mixtures 7 25 4 14
ditto 83		614	. 2		0	Mixtures 7 25 4 14 Moonta 73 25 14
ditto 82	*****	654			6	ditto
Aljustrel 78		43/4	. 2		0	ditto 13 20
ditto 78		474	. 2		0	ditto 72 25 16 ditto 74 28¼ 16
ditto 82		434	. 2	9	0	ditto 74 28%
Knock 128		934	. 5	5	0	
		,	TOT	AL	P	RODUCE.
Betts Cove	1605	£	5061	18	0	Berehaven ore 93 £ 499
Beville Copper .	552		1452	13	0	Cop. Precipitate 53
	238				0	Copper Regulus. 10 134
Knockmahon .		3	672	0		Copper ore 9 6
Tan-y-Bwlch	120)	994		0	Copper matt 6
Cambrian	116	3	1118		0	

arnt Ore 104 62 8 0 Moonta ore	200	
COMPANIES BY WHOM THE ORES WERE P	TROHASED.	
COMPANIES BY MHOM THE ORES WERE I	Amount	ė
Names.		ł
Copper Miners' Company 340		
P Grenfell and Sons 203	1,070 10	í
Nevill, Druce, and Co 323	2,153 10	
Vivian and Sons 707		
Williams, Foster, and Co 932	4,383 10	
Mason and Elkington	1,193	
		Ą
Charles Lambert and Co 216	870 4	ł
Sweetland and Co 238		j
Landors Copper Company		
	227 700 10	
Total 3407	£17,799 19	

COAL MINATIO DISTRIC

PRIL !

ed Act, will DING TO te the 18th

TO URNS AN OF T

HE BOAT e RECOV. Registrar that proof ear are not ted Januar

HEZ CKE

oays or Con or Ores. MME MINING PALMERS INING DEPA

ICAL DI

&c., manu

ERSE MINES FAR

MININ 8 H.P. ph.p. VERI ding drum i b-ft. PAN

pply to-BARR TINDING ORTABI EAM CAI ORIZON

LEXANDE WENTY-FI link mo almost ne H. RIDI LOCOI

MES COCOMOTIV THE B

> UFACTURE PTION, for oyal 8vo, p

LBUM " AT THE CE L_{01} R

ACTICAL TI FTY-SIX

Now publish HE STUDE ally written fo

other Collery (
y details of Min
e work will b
TES when oon
e several heads
pecting, Boring
ding, and Hau
ems of Workim
o Back Water;
e work is desig
a form as to be
similar work

CURT

COAL MINES REGULATION ACT, 1872.

MINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY. DISTRICT UNDER THE CHARGE OF RALPH MOORE, Esq., H.M. INSPECTOR OF MINES.

M.M. INSPECIOR OF MINES.

OTICE IS HERERY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above. The control of the state of May, and CANDIDATES INDIVISION OF THEMSELVES at such Examination must, on or the 18th day of May, notify such intention to the Secretary of the Board to the above-mentioned District, from whom all information as to particulars can stained.

By order of the Board.

By order of the Board.

CALDER, Secretary, 280, Renfrew-street, Glasgow.

B.—Persons who do not reside within the District are equally eligible for alimation with those who do.

TO JOINT-STOCK COMPANIES.

URNS AND NOTICES REQUIRED TO BE FILED AT THE OFFICE OF THE REGISTRAR OF JOINT-STOCK COMPANIES,

OF THE REGISTRAR OF JOINT-STOCK COMPANIES,
Under the Companies Acts, 1862 and 1867.

HE BOARD OF TRADE hereby give notice that it has been
DETERMINED to ENFORCE the PUNCTUAL FILING of RETURNS
NOTICES, required to be rendered to the Registrar of Joint-Stock Companies,
the various sections of the above Acts of Parliament; and to PROCEED
to RECOVERY of PENALTIES incurred in cases of neglect to comply with
revisions of the law.
Registrar has been instructed to prepare a List of Companies in default, in
that proceedings may be instituted against such companies, if the returns
rear are not for think sent in to the Assistant Registrar, at his office, Truro.
ted January 26, 1878.

HENRY WIGGIN AND CO.

NICKEL AND COBALT REFINERS, BIRMINGHAM.

Mr. E. JACKSON,

Associate of the Royal School of Mines,

ANALYST AND ASSAYER.

Leavy or Complete Analyses made of Copper, Silver, Lead, Zinc, Tin, and
ASSAYING TAUGHT.

108. QUEEN VICTORIA STREET, LOSDON 108, QUEEN VICTORIA STREET, LONDON, E.C.

MMENS AND CO. (LIMITED), MINING ENGINEERS AND MANUFACTURING CHEMISTS.

CHIEF OFFICE.
PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, B.C. ING DEPARTMENT.—The Management of Mines undertaken, and Tec ts and Surveys made. is and Surveys made. MICAL DEPARTMENT.—Ores, Minerals, Acids, Salts, Arsenie, Pigments &c., manufactured and dealt in.

JOHN L. M. FRASER, BERSE COTTAGE, NEAR WREXHAM.

Fourteen years at the Great Minera Mines. HINES FAITHFULLY REPORTED ON, AND MINING ACCOUNTS CAREFULLY AUDITED.

C. H. WALKER AND CO., MINING AGENTS AND ENGINEERS. VALPARAISO AND SAN IAGO, CHILE.

RVICE,

invited

7, E.C.;

he pro

re.

r, and a

SED.

799 19 0

Co.

H.P. PORTABLE STEAM ENGINE, with link motion, reversing gear, ready for delivery; also gear to wind and pump. Ohp, VERTICAL STEAM ENGINE, with link motion, reversing gear (winding drum if required).

A6-tt. PAN MORTAR MILL, VERTICAL ENGINE, and BOILBR, with arrige and travelling wheels.

pply to— BARROWS AND STEWART, HNGINEERS, BANBURY.

VINDING ENGINES, NEW PRINCIPLE, best and most compact in the market. Several pairs ready. ORTABLE WINDING AND SINKING ENGINES, the

Cheapest and most convenient and durable.

STEAM CAPSTANS AND HAULING ENGINES. The greatrst power in the space of any made. ORIZONTAL, VERTICAL, AND PORTABLE ENGINES.

PUNCHING, SHEARING, DRILLING, AND OTHER MACHINES.

Many of the above secondhand, very cheap.

ALEXANDER SMITH, ENGINEER, THE MIDLAND MACHINERY STORES.—Offices: PRIOR STREET, DUDLEY.

WENTY-FIVE H.P. PORTABLE ENGINE, FOR SALE, with link motion reversing gear, suitable for Pumping, Winding, almost new, ready for delivery.

J. H. RIDDEL & CO., 49, JAMAICA STREET, GLASGOW.

LOCOMOTIVE TANK ENGINES ONTRACTORS, IRON WORKS, MANUFACTORIES, &c., from a superior relaction, equal to their first-class Railway Engines, and specially stapted to receive and heavy gradients, may always be had at a short notice from —

MESSES, BLACK, HAWTHORN, AND CO., LOCOMOTIVE, MARINE, AND STATIONARY ENGINE WORKS, GATESHEAD-ON-TYNE.

THE BIRMINGHAM WAGON COMPANY (LIMITED)

(AIMITED)

ATURACTURE RAILWAY CARRIAGES and WAGONS of EVERT DECOMPTION, for HIRE and SALE, by immediate or deferred payments. They
also wagons for hire capable of carrying 6, 8, and 10 tons, part of which
constructed specially for shipping purposes. Wagons in working order main
and by contract. MANUFACTURERS also of IRON WORK, WHEELS, and
ALES. EDMUND FOWLER, Managing Director. WAGON WORKS,-SMETHWICK, BIRMINGHAM.

loyal 8vo, pp. xvi.-294, stitched in wrapper, with 4to Atlas, containing 140 Plates. Price £4.

LBUM TO THE COURSE OF LECTURES ON METALLURGY,

AT THE CENTRAL SCHOOL OF ARTS AND MANUFACTURES. BY S. JORDAN, C.E.

London: TRUBNER and Co., Ludgate Hill.

Just published, 8vo., cloth, 10s. 6d. ROCK BLASTING:

New York: 416, Brome-street.

PACTICAL TREATISE ON THE MEANS EMPLOYED IN BLASTING ROCKS FOR INDUSTRIAL PURPOSES.

By GEO. G. ANDRE, F.G.S., Assoc. Inst. C.E. FITY-BIX ILLUSTRATIONS, AND TWE London : E. and F. N. Spon, Charing Cross.

publishing, to be completed in 30 parts, at One Shilling each. HE STUDENT'S GUIDE TO THE PRINCIPLES OF COAL

AND METAL MINING.

AND MINING.

J. G. CAMPBELL AND CO., SUNDERLAND. CURTICE AND Co., Catherine-street, Strand, London.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the ALYIGGAN AND BURNGULLOW TIN MINING COMPANY (LIMITED).—The Vice-Warden has, by an Order made in the above Matter, bearing date the 4th day of April instant, appointed CHARLES WILLIAM CLINTON, of Truro, within the said Stannaries, an Officer of the said Court, to be absolutely the OFFICIAL LIQUIDATOR of the ABOVE-NAMED COMPANY.

Dated Registrar's Office, Truro, April 4th, 1878.

In the Court of the Vice-Warden of the Stannaries, Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1962 and 1867, and of the ALVIGGAN AND BURNGULLOW TIN MINING COMPANY (LIMITED).—Notice is hereby given, that ALL CREDITORS of the abovenamed company are required, on or before the lish day of April instant, to SEND IN their NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of their SEVERAL CLAIMS, to CHARLES WILLIAM CLINTON, the Official Liquidator of the said company, at the Stanmaries Court Office, in Truro.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, the 11th day of April, 1878.

MINING MACHINERY, &c., IN UNY LELANT, CORNWALL, FOR SALE.

MR. BERRYMAN will offer for SALE, BY PUBLIC AUCTION, on Tuesday, the 16th instant, at Eleven A.M., at the PROVIDENCE MINES, in suitable Lots, the remainder of the

MACHINERY, MATERIALS, &c.,

Thereon, consisting of—
ONE 40 inch PUMPING ENGINE.
ONE 30 inch STAMPING ENGINE.
ONE 30 inch WINDING ENGINE; and
ONE 23 inch WINDING ENGINE; and
ONE 20 inch "MAN ENGINE," with BOILERS, &c., &c.
ONE heavy 10 feet diameter TOOTHWHEEL.
ONE 8 inch HORIZONTAL ENGINE.
Balance bobs; six pulverisers; calciner and water wheel; round buddles and gearing; machine and hand frames; sundry water wheels from 8 to 14 ft. diameter; steel wire rope; tin kieves, tin chests, wood roofing, launders, carpenters' tools; a good dial; and also the account-house furniture, consisting of a good eight day clock, tables, chairs, glass, carthenware, cutlery, culinary utensils, fron bedstead, desks, cupboard, candle chests, two water barrels, and numerous other articles.

articles. For further information, apply to Capt. Hollow, the Manager on the Mine; Mr. E. TRYTHALL, the Purser, Penzance; or to the Auctioneer, 28, Clarence street, Penzance.—Dated 5th April, 1878.

THE MERRYBENT ESTATE, IN THE NORTH RIDING OF

MESSRS. WATSON AND SON are instructed by the Mortgagee, with power of sale, TO OFFER FOR SALE, BY AUGTION, at the King's Head Hotel, in Darlington, on Monday, the 29th day of April, 1878, at Two for Three o'clock in the afternoon, subject to conditions, all that VALU-ABLE FREEHOLD ESTATE, called MERRYBENT.

MERRYBENT,
Situate in the parishes of Melsonby and Middleton Tyas, in the North Riding of the county of York, consisting of—
TWO FARM HOUSES, with the necessary HOMESTEADS and FARM BUILDINGS, and PASTURE. MEADOW, and ARABLE LANDS, with COTTAGES thereon, containing altogether 347 A. 1 R. 19P., or thereshouts, all now in the occupation of Mr. Matthew Martin.
The property is seven miles from Darlington and six from Richmond, at both which towns there are excellent markets.
A great portion of the estate is underlaid by the mountain limestone, which has been proved to be of considerable thickness and of good quality. Valuable veins of lead and copper have also been found, and there is an excellent bed of freestone on the property.
A line of railway from the Darlington and Barnard Castle branch of the North-Eastern comes within a very short distance of the eastern boundary of the estate, and by means of this railway the minerals can readily be carried to any part of the country.

and by means of this railway the inherais can readily be called a large of the country.

The DRAWING ENGINE, BOILERS, and other fixed PLANT and MACHINERY now on the estate WILL BE SOLD along with it.

From its great mineral resources the estate cannot but prove a most valuable investment. The limestone is very well adapted for smelting purposes, and if properly worked a very considerable revenue could be derived from this source alone.

Plans and particulars may be obtained of the Auctioneers, at their offices in Darlington; of Messrs. SYMS and SOM, Solicitors, 7, Farnival's Inn, London; or of Messrs. SCHOLEY, WILSON, and NOETH, Solicitors, Wakefield.

THE NEW VICTORIA SALT COMPANY

(LIMITED).
456 £12 SHARES—WITHOUT RESERVE.

456 £12 SHARES—WITHOUT RESERVE.

MESSRS. EDWIN FOX AND BOUSFIELD WILL SELL, at the Mart, Tokenhouse-yard, in the City of London, on Wednesday next, April 17, at Two precisely, in Lots, 456 SHARES, of £12 each, to be issued, £10 paid up, in the NEW VICTORIA SALIT COMPANY (LIMITED).

A call of £1 per share has been made on the shares, of which 15s. is now payable, with interest at 5 per cent, from the 1st January last, and 5s. will become payable on the 1st July, 1878; the remaining £1 per share is expected to be called up shortly.

Particulars of Messrs. Hollams, Son, and Coward, Solicitors, Commercial Sale Rooms, Mincing-lane, £,C.; at the office of the company, 14, George-street, Mansion House, E.C.; at the Mart; and of Messrs. Edwin Fox and Bousfield, 99, (late 24) Gresham-street, Bank, E.C.

GLAMORGANSHIRE.

PARISHES OF LLANTRISSANT AND LANTWIT VARDRE.

ALL THAT VALUABLE LEASEHOLD MINERAL PROPERTY, known as

PROPERTY, known as

POWELL'S LANTWIT COLLIERIES (LIMITED),

Situate in the above parishes, and in direct communication with the shipping ports of Cardiff and Penarth, comprising about THREE HUNDRED AND TWENTY-SEVEN ACRES OF UNWORKED COAL, of the Nos. 1, 2, and 3 seams Lantwit House and Gas Coal, together with the suitable BUILDINGS, FIXED PLANT, and MACHINERY, and ample railway siding accommodation, which WILL BE SOLD, BY AUCTION, in One Lot, and us a going concern, by Mr. WILLIAM BENJAMIN GRAHAM (of the firm of William Graham and Son), the person appointed by Vier-Chancelior Bacon to dispose of

tion, which WILL BE SOLD, BY AUCTION, in One Let, and as a going concern, by Mn. WILLIAM BENJAMIN GRAHAM (of the firm of William Graham and Son), the person appointed by Vice-Chancelior Bacon to dispose of the same, at the Angel Hotel, Cardiff, on Tuesday, the 7th May, 1818, at Three eclock in the atternoon precisely.

Descriptive particulars, conditions of sale, lithograph plan, and orders to iew the property, may be obtained of the Auctioneer, Victoria Chambers, Newport, Mon.; of Alfred Good, Esq., the Official Liquidator, New Poultry Chambers, 7, Poultry, London, E.C.; and of Messrs. TUCKER, BLOUNT, and Co., 4, Kingstreet, Cheapside, London, E.C.

TO BE SOLD, BY PUBLIC AUCTION, under Decree of the Supreme Court of Newfoundland in Equity, in a suit between Charles Fox Bennett, Plaintiff, and SMITH MCKAY and Leander Gill, Defendants, on Monday, the 2nd day of September next, at Twelve o'elock noon (if not previously disposed of by private sale), at the Court House, in St. John's, Newfoundland, that VALUABLE COPPER MINE and MINING PROPERTY called and known as the UNION MINE,

and known as the

UNION MINE,

Situate on the east and west sides of Tilt Cove, on the north side of Notre Dame
Bay or Green Bay, Newfoundland, and near Cape John, with all ERECTIONS,
IMPROVEMENTS, PLANT, and OTHER PROPERTY and EFFECTS thereto

IMPROVEMENTS, PLANT, and OTHER PROPERTY and EFFECTS thereto appertaining.

The mine is held under grant in fee from the Government of Newfoundland, containing two miles in length, by half a mile in breadth; a Licence of Occupation from the said Government, containing one mile square, west of and adjoining the Crown grant and land held under conveyance of fee-simple interests of former owners.

The title-deeds and documents, and plans and surveys of the property may be seen, and further information may be obtained, by application to PRESCOTE EMERSON, Esq., Q.C., Master-in-Chancery, at his office, in St. John's; or to either of the underigned colicitors for the parties, or to either of the parties.

Conditions of sale will be published hereafter.

PRESCOTE EMERSON, Q.C., Master in Chancery, St. John's, Newfoundland, January 23rd, 1878.

For further particulars, apply to C. T. BENNETT, Esq., No. 55, Queen's-square, Bristol; Messrs. Henry Barth and Son, Gresham House, London: or to Pingent and Greene, Solicitors for Defendant McKay.

TO BE SOLD, ONE 20-H.P. SEMI-PORTABLE ENGINE and

PO BE SOLD, ONE 20-H.P. SEMI-PORTABLE ENGINE and BOILER, with link motion, by Fowler and Co., Leeds, with PUMPS and INJECTOR, and all necessary FITTINGS, connected by strong gear to winding drum complete; the whole in first-rate condition, and nearly negar to winding drum complete; the whole in first-rate condition, and nearly negar to winding by Hornsby and Son, with all necessary fittings, connected with strong pumping gear, complete, and in good working order.

Also, TWO cast-iron T-BOBS, feet centres, with pedestals and brasses. ONE 16 inch LITT OF PUMPS, with bucket clack, windbore, &c., complete, 36 tons in all, 84 yards in length. ONE 10 in LIFT complete, with sliding windbore, &c., 35 yards in length, 7 tons.

Also, a QUANTITY of MISCELLANEOUS COLLIERY and SINKING PLANT and MATERIALS.

Apply to Mr. THOMAS COXON, Snareston Measham, near Atherstone.

TO CAPITALISTS.

TO CAPITALISTS.

A N EXCELLENT SLATE QUARRY, in NORTH WALES, is OFFERED FOR SALE, which has been PROVED to be of the BEST QUALITY, and its position affords great facilities to work it both economically and remuneratively. There is abundant supply of water and ampletiproom. The vein is about a mile long; average thickness, 60 to 80 yards. Slates may be conveyed either to a main line of railway or a prominent seaport at 2s. per ten. Leasehold 40 years to run. Price £7000.

For further particulars, apply to "E. 16," Brainerd-street, Liverpool.

ASBESTOS.

A NEW and INDESTRUCTIBLE ASBESTOS PACKING for steam joints and glands, possesses an unusual power of resisting heat, works efficiently under the highest pressure of steam, being practically indestructible. Apply to—

THE PATENT ASBESTOS MANUFACTURE CO. (LIMITED), 31, ST. VINCENT PLACE, GLASGOW,

AND 10, MARSDEN STREET, MANCHESTER.

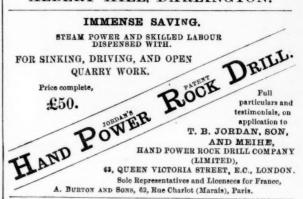
DARLINGTON WAGON COMPANY, MANUFACTURERS OF

RAILWAY WAGONS

OF EVERY DESCRIPTION.

For Cash, or on Deferred Payments, or Hire. REPAIRS EXECUTED WITH DESPATCH, ON REASONABLE TERMS.

ALBERT HILL, DARLINGTON.



JOHN TAYLOR & CO.,

Single and Double Leather

Copper Riveted Leather Hose

India Rubber Valves, Sheet, Washers, Belting, Hose Pipes, Packing, &c., &c.

Gutta Percha Pump Buckets, Round and Flat Bands, Tube, Sheet, &c., &c. Brattice Cloth, Roofing and Hair

Harness Leather, Engine Bends,
Hippopotamus and Walrus Hides, and every description of
Leather used in Collieries and Mines.

Warehouse: 12, Dean-street, Newcastle-on-Tyne. Works: Dean Court,



RON AND STEEL RAILS, of all sections, from 10 to 82 lbs. per yard, new, defective, or second-hand.
POINTS AND CROSSINGS, FISH PLATES, BOLTS, NUTS, CHAIRS, AND SPIKES. LOCOMOTIVE ENGINES AND MACHINERY. MALLEABLE AND PIG-IRON OF ALL KINDS. Delivered at all Ports and Railway Stations in Great Britain.

J. J. ARIS AND CO., MINING ENGINEERS, MINERAL AND METAL MERCHANTS, 29, FENCHURCH STREET, LONDON, E.C. Mines inspected and reported upon.

BICKFORD'S PATENT



Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; a the "INTERNATIONAL EXHIBITION" of 1862 and 1874, in London; at the "IMPERIAL EXPOSITION," held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1865; at the "UNIVERSAL EXPORTION," TO Paris, 1867; at the "GREAT INDUSTRIAL EXHIBITION," at altona, in 1869: TWO MEDALS at the "UNIVERSAL EXHIBITION," vienna, in 1873; and at the "EXPOSICION NACIONAL ARGENTINA," Cordeva, South America, 1872.



BUCK FOR D, SMITH AND CO., of TUCKINGMILL, CORNWALL; ADELPHI
BANK CHAMBERS, SOUTH JOHN-STREET, LIVERPOOL; and 85, GRACECHURCH-STREET, LONDON,
E.C., MAN UFACTURER BAND OR IG IN AL
PATENT E E S of SAFETY-FUSE, having been in
formed that the name of their firm has been attached to
fuse not of their manufacture, beg to call the attention of
the trade and public to the following announcement:FHERADS PASSING THROUGH the COLUMN of GUNPOWDER, and BICKFORD, SMITH, AND CO. CLAIM SUCH TWO SEPARATE THREADF as
THEIR TRADE MARK.

BENNETTS' SAFETY FUSE WORKS ROSKEAR, CAMBORNE, CORNWALL.

BLASTING FUSE FOR MINING AND ENGINEERING PURPOSES,
Suitable for wet or dry ground, and effective in Tropical or Poler Climates.

W. BENNETTS, having had many years experience as chief engineer with lessrs. Bickford, Smith, and Co., is now enabled to offer Fuse of every ariety of

his own manufacture, of best quality, and at moderate prices.

Price Lists and Sample Cards may be had on application at the above address LONDON OFFICE -H. HUGHES, Esq., 45, GRACECHURGH STREET. DEBILITY AND NERVOUSNESS.

DEBILITY AND NERVOUSNESS.

Free Edition, 152 pages, post free, in envelope, two stamps. The WARNING VOICE.—A Special Medical Book for Young Men, on the Cause, Consequence, and Treatment of certain forms of Debility and Nervousness, viz.—Mental and Physical Depression, Palpitation of the Heart, Noises in the Head and Ears, Impaired Sight and Memory, Indigestion, Pains in the Back, Headache, Piles, Constipation, Hysteria, Dizziness, Local Weakness, Muscular Relaxation, Nervous Irritability, Bushing, &c., resulting from Exhaustion of Nerve Power, effect of Overwork, City Life, Worry, Brain Toil, Internersness and other shees of the water. perance, and other abuses of the system.

Address, Dr., H. SMITH, S, Burton Cresent, London, W.C.

OR CRADLE MOUNTED, BORING MACHINES.

"DARLINGTON" ROCK BORER.



JOHN DARLINGTON, 2, COLEMAN-STREET-BUILDINGS, MOORGATE STREET, LONDON, E.C.

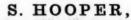
PATENT DUPLEX LAMPS,

FOR COLLIERIES, 1RONWORKS, &c.

SUITABLE FOR PIT BANKS, ENGINE HOUSES, &c., &c.

Each Lamp gives a light equal to 26 candles.

No breakage of Chimneys from heat. Cottons last three months. Will burn any mineral oil.



LAMP MAKER & OIL MERCHANT, LOWER TEMPLE STREET, BIRMINGHAM.

N.B.-Lamps made suitable for every purpose.
The BEST SIGNAL BELL MADE for MINING PURPOSES.
ILLUSTRATIONS ON APPLICATION.

WIRE ROPES.



ESTABLISHED 1770.

MANUFACTURERS OF EVERY DESCRIPTION OF IMPROVED

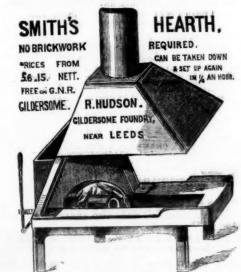
Patent Round and Flat Wire Ropes, om the very best quality of Charcoal and Patent Steel Wire. Galvanised Wire, pes for Ships' Rigging, Galvanised Signal and Fesicing Straud, Copper Rope than Conductors, Colliery Ropes and Steam Plough Ropes made from the best Patent Improved Steel Wire.

PATENT ROUND AND FLAT HEMP ROPES,

Hemp, Flax, Engine Yarn, Cotton Waste, Tarpauling, Oil Sheets, Brattlee Cloth, Wagon Covers, &c., &c.

UNIVERSE WORKS, MILLWALL, POPLAR, LONDON.
UNIVERSE WORKS, GARRISON STREET, BIRMINGHAM.
CITY OFFICE, No. 8, LEADENHALL STREET, E.C.
All communications to be forwarded to the BIRMINGHAM ADDRESS.

IMPROVED IRON



GREAT SAVING IN ROOM.

Second Edition. Just published, price 8s. 6d.

NEW GUIDE TO THE IRON TRADE

OR, MILL MANAGERS' AND STOCK-TAKERS' ASSISTANT;
prising a Series of New and Comprehensive Tables, practically arranged to
at one view the Weight of Iron required to produce Boller-plates, Sheet-iron,
Flat, Square, and Round Bars, as well as Hoop or Strip Iron of any dimento which is added a variety of Tables for the convenience of Merchants,
ding a Russian Table.

Batman's Hill Ironworks, Bradley, near Bliston.

OPINIONS OF THE PRESS.

The Tables are plainly laid down, and the information desired can be instantationally obtained."—Mining Journal.

"900 copies have been ordered in Wigan alone, and this is but a tithe of those to whom the book should commend itself."—Wigan Examiner.

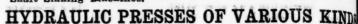
"The work is replete on the subject of underground management."—M. BANER Octiver, Proprietor.

To be had on application at the MINING JOURNAL Office, 26, Ficet-street, London

ORMEROD, GRIERSON, AND CO.

ST. GEORGE'S IRONWORKS, MANCHESTER, Engineers, Millwrights, & Boiler Makers,

Stationary Steam Engines and Boilers for all purposes, Mill Gearing, Sugar Machinery, Cranes, Turk-Tables, and Railway Fixed Plant of all descriptions; also, the Diamond Rock Boring Company's Plant –viz.: Compressed Air and Air-Compressing Engines, Prospecting Machines, Tunnelling Machines, and Shaft Sinking Machines.



Have the Largest Assortment in the Trade of

PATTERNS,

WITH MACHINE-CUT TEETH, OF

SPUR WHEELS, BEVEL WHEELS. MITRE WHEELS.

WHEELS. FLYDRIVING PULLIES & DRUMS

CAN BE SUPPLIED BORED AND TURNED IF REQUIRED.

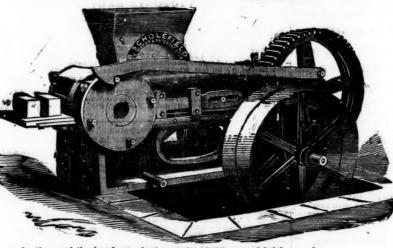
CATALOGUES ON APPLICATION.

LONDON OFFICES:

No. 5, WESTMINSTER CHAMBERS VICTORIA STREET,

WESTMINSTER,

R. SCHOLEFIELD'S BRICK-MAKING PATENT MACHINE



R. S. begs to call the attention of all Colliery Owners in particular to his PATENT SEMI-DRY BRICK MACHINE, and the economical me thod of making bricks by his patent machinery from the refuse that i taken from the pits during the process of coal-getting, which, instead of storing at the pit's mouth (and making acres of valuable land use less) is at once made into brick at a very small cost, by R. S.'s Pateut Brick-making Machinery. the material is got from the pit hill, the following is about the cost of

production, and the hands required to make 10,000 pressed bricks per day:-

orter's Governor for Stationary Engines. Also Gover-nors on the same principle adapted for Marine Engines

2 men digging, each 4s. per day
1 man grinding, 4s. 6d, per day
1 boy taking off bricks from machine, and placing them in barrow ready for the kiln, 2s. per day
1 boy greasing, 1s. 6d, per day
1 engine-man, 5s. per day
1 man wheeling bricks from machine to kiln, 4s. per day

THE MACHINES CAN BE SEEN IN OPERATION AT THE WORKS OF THE SOLE MAKER AND PATENTEE DAILY.

SCHOLEFIELD'S ENGINEERING & PATENT BRICK MACHINE WORKS KIRKSTAL ROAD, LEEDS.

DESIGNED FOR USING COMPRESSED AIR OR STEAM,

SIMPLE, COMPACT, PORTABLE. Silver Medal, Royal Cornwall Polytechnic Society, 1876

No. 1 size, 7 in. single cylinder, with 2 ft. drums.

No. 2 size, 9 in. single cylinder, with 2 ft. 6 in. drums.

Larger sizes made with two cylinders.

A;— 6 in. double cylinder, with 2 ft. 3 in. drums.

B;— 8 in:

C;—10 in.

3 ft. 6 in. drums.

4 ft. 6 in. drums.

4 ft. 6 in. drums. B,— 8 in: C,—10 in. D,—12 in. 99 4 ft. 6 in. drums, MANUFACTURED BY

THE USKSIDE CO.,

ENGINEERS, MAKERS OF PUMPING AND WINDS MACHINERY, AND FORGINGS OF EVERY DESCRIPTION,

NEWPORT, MON

Agents for the six Northern Counties-TANGYE BROTHERS, St. NICHOLAS BUILDIN NEWCASTLE-ON-TYNE.

[This Advertisement appears fortnightly.]

Is the M BLOCKS ITS S its GIAN As a S FROM T For inf

APRIL

Lond

Recom BLASTIN Results It save It can submarin

Agents TH

> TH JUST AND COMI

MES ORDI CONS

TH

BOE

The

For fo Refere

CATA

IMP

THE DE

MS.

E,

ion of

ular to

BRICK

al me

that

he pro

h (an

ad use

brick

.'s Pa-

ry.

pit hill

cost o

AILY.

RK8

y, 1876.

rums

WINDE CRY

NOBEL'S

Is the MOST ECONOMICAL and POWERFUL EXPLOSIVE for every kind of MINING and QUARRYING OPERATIONS; for blasting in hard or soft, wet or dry ROCKS; for clearing land of TREE ROOTS and BOULDER STONES; for rending massive BLOCKS of METAL; for SUBAQUEOUS and TORPEDO purposes; and for recovering or clearing away of WRECKS, &c. ITS SAFETY is evidenced by the total ABSENCE OF ACCIDENTS in transit and storage; it is insensible to heavy shocks

ITS SAFETT IS evidenced by the total ABSENCE OF ACCIDENTS in transit and storage; it is insensible to heavy shocks its GIANT POWER being only fully developed when fired with a powerful percussion detonator, and hence its great safety.

As a SUBSTITUTE FOR GUNPOWDER its advantages are the GREAT SAVING OF LABOUR, rapidity and INCREASE OF WORK done, FEWER and smaller BORE-HOLES required, greater depth blasted, safety in use NO DANGER FROM TAMPING, absence of smoke, unaffected by damp, &c.

For information, apply to the-NOBEL'S EXPLOSIVES COMPANY (LIMITED), GLASGOW;

London & Export Office, 85, GRACECHURCH STREET, LONDON E.C.

TONITE, OR COTTON POWDER. THE SAFEST, STRONGEST, AND CHEAPEST OF ALL EXPLOSIVES.

amended to MINERS, PIT SINKERS, QUARRYMEN, and CONTRACTORS as the MOST EFFICIENT and ECONOMICAL

Recommended to MINERS, FIT SINKERS, QUARRIMEN, and CONTRACTORS as the MOST EFFICIENT and ECONOMICAL BLASTING AGENT ever invented.

Results of practical experience show a saving of from 15 to 20 per cent. ever the strongest explosives preiously in use. It saves labour in drilling holes, as a less number of holes are needed. It does not require thawing, but is ready for use at all temperatures and in all climates. It can also be advantageously used in breaking up boulders, extracting stumps, removing wrecks, exploding torpedos, and for submarine purposes in general, as well as for signal lights and fog signals for ships.

OFFICES: 23, QUEEN ANNE'S GATE, LONDON, S.W. WORKS: FAVERSHAM, KENT.

Agents Dineen, Son, and Co., Leeds; John Russell, Whitehaven; R. J. Cunnack, Helston, Cornwall; J. and W. Smith, Chapel-en-le-Frith; W. Veitch, Jedburgh, N.B.

THE BRITISH DYNAMITE COMPANY

MESSRS. KREBS & COMPANY.

THE COURT OF APPEAL HAVE REVERSED THE DECISION OF MR. JUSTICE FRY, AND DISSOLVED THE INJUNCTION GRANTED BY HIM: AND DISMISSED THE ACTION, WITH COSTS, AGAINST THE PLAINTIFF

Messes. KREBS BROTHERS AND CO. ARE PREPARED TO EXECUTE ORDERS FOR LITHOFRACTEUR BOTH FOR HOME AND FOREIGN CONSUMPTION AS USUAL.

Address,— MESSRS. KREBS BROTHERS AND CO.,

22, BASINGHALL STREET, LONDON, E.C.

THETUCKINGMILL FOUNDRY COMPANY (TUCKINGMILL FOUNDRY AND ROSEWORTHY HAMMER MILLS),

CAMBORNE, CORNWALL, Engineers, Iron and Brass Founders, &c.,

MAKERS OF EVERY DESCRIPTION OF MINING MACHINERY, SHOVELS, GEARWORK,

AND STAMPING ENGINES. PUMPING, WINDING, ALSO OF

STONE BLAKE'S BREAKERS.

SOLE MAKERS OF BORLASE'S PATENT ORE-DRESSING MACHINES AND PULVERISERS.

ESTIMATES GIVEN UPON INDENTS AND SPECIFICATIONS, ILLUSTRATED CATALOGUES POST FREE ON APPLICATION.

LONDON OFFICE: 85, GRACECHURCH STREET, E.C.

The "BURLEIGH" ROCK-BORING COMPANY (LIMITED).

100, KING STREET, MANCHESTER. RICHARD MOTTRAM, Secretary.

For the Sale of the "Burleigh" Rock Boring Machinery; and also for Sinking Shafts, Cutting Tunnels and Levels, and General Rock Blasting Operations by Contract.

Messrs. BOLCKOW, VAUGHAN, AND CO. (LIMITED), Middlesborough.

"THE DOWLAIS IRON COMPANY (LIMITED), South Wales.

"THE EBBW VALE STEEL, IRON, AND COAL COMPANY (LIMITED), South Wales.

"THE CRUMLIN VIADUCT WORKS COMPANY (LIMITED), South Wales.

"T. T. J. WALLER, Esq., Railway Contractor, Gisburn, near Skipton.

"TURNER AND SON, Limestone Quarries, Kiverton Park, near Sheffield.

CATALOGUES AND PRICE LISTS OF MACHINERY FORWARDED ON APPLICATION TO THE COMPANY'S OFFICE.

COLLIERY PROPRIETORS IMPROVED "REGISTERED" SECTION'S OF SCREEN STEEL.



No. 1.

No. 2.

No. 2.

No. 5.

No. 5.

No. 5.

No. 6.

No. 1.

No. 1.

No. 1.

No. 2.

No. 2.

No. 5.

No. 5.

No. 5.

No. 5.

No. 6.

No. 6.

No. 1.

No. 1.

No. 1.

No. 2.

No. 2.

No. 5.

No. 5.

No. 5.

No. 5.

No. 5.

No. 6.

No. 6.

No. 7.

No. 1.

No. 1.

No. 1.

No. 2.

No. 5.

No. 5.

No. 5.

No. 5.

No. 6.

No. 1.

No. 1.

No. 1.

No. 2.

No. 2.

No. 2.

No. 5.

No. 5. JOEL EATON WALKER, STEEL MERCHANT SHEFFIELD

"Kainotomon" Rock Drill

BRITISH, PRUSSIAN, & SAXON GOVERNMENTS.



T. A. WARRINGTON, 30, King-street, Cheapside, LONDON E.C.

PHOSPHOR BRONZE



COMPANY (LIMITED).

\$\frac{1}{2} \text{ Company (Limited)}.}{139, CANNON STREET, E.C LONDON.}

.. £120 per ton.

WIRE ROPES, TUBES OF ALL DESCRIPTIONS, &c.

MANUFACTURERS OF EVERY DESCRIPTION OF

WIRE AND HEMP ROPES

COLLIERIES, RAILWAYS AND SHIPPING, &c, Charcoal and Steel Wire Ropes (Flat and Round), of bests :-

lected Charcoal and Steel Wire.
Guide Rods.
Galvanised Wire Signal Cord.

Galvanised Wire Signal Cord.
Galvanised and Plain Strand for Fencing.
Galvanised Wire Rope for Ships' Rigging.
Chains, Wire Rope Pulleys, Brattice Cloth, &c., &c.
Hemp Crab Ropes, of best selected Petersburg and Italian Hemp
Ditto Flat Ropes ditto ditto
Ditto Cordage ditto ditto
Manilla Rope, White and Tarred.
Flax Spun Yarn and Dressed Flax, for Packing.
Brown and White Spun Yarn.
Fine Dressed Petersburg and Italian Hemp. &c., &c.

Fine Dressed Petersburg and Italian Hemp, &c., &c.
Ships Rigging fitted to order. Estimates and special quotations
supplied on application to

CRAVEN & SPEEDING BROS. Wear Hemp and Wire Rope Works, SUNDERLAND.



By a special method of preparation, this leather is made solid, perfectly close in sexture, and impermeable to water; it has, therefore, all the qualifications essential for pump buckets, and is the most durable material of which they can be made. It may be had of all dealers in leather, and of—

I. AND T. HEPBURN AND SONS, TANNERS AND CURRIERS, LEATHER MILLBAND AND HOSE PIPE MANUFACTURERS,

LONG LANE, SOUTHWARK, LONDON
Prize Medals, 1861, 1865, 1862, for
MILL BANDS, HOSE, AND LEATHER FOR MACHINERY PURPOSES.

MR. W. F. STANLEY, MATHEMATICAL INSTRUMENT
SOIENCE AND ART DEPARTMENT, ADMIRALTY, &c.
MATHEMATICAL, DRAWING, and SUDEVING INSTRUMENTS of every
description, of the highest quality and finish, at the most moderate prices.

Encirc Divider to the Trade.
Address—Great Turnstile, Holborn, London, W.O.

Now ready, price 3s., by post 3s. 3d., Sixth Edition; Twentieth Thousand Copie much improved, and enlarged to nearly 300 pages.

much improved, and enlarged to nearly 300 pages.

POPTON'S CONVERSATIONS ON MINES, between Father and Son. The additions to the work are near 80 pages of useful information, principally questions and answers, with a view to assist applicants intending to pass an examination as mine managers, together with tables, rules of measurement, and other information on the moving and propelling power of ventilation, a subject which has caused so much controversy.

The following few testimonials, out of hundreds in Mr. Hopton's possession, speak to the value of the work:

"The book cannot fail to be well received by all connected with collieries."—Mining Journal.

"Its contents are really valuable to the miners of this country."—Miners Conservence.

erence.

"Buch a work, well understood by miners, would do more to prevent colliery accidents than an army of inspectors."—Colliery Guardian.

London: MINING JOURNAL Office, 28, Fleet-street; and to be had of all book

THE MINING SHARE LIST.

BRITISH DIVIDEND MINES,	į
Shares Mines Paid Last wk Clos. pr. Total divs. Per sh. Last pd 1500 Alderley Edge, c, Cheshire*	-
5400 Cashwell, l, Cumberland*	
10240 Devon Gt. Consols, c, Tavistock†* 1 0 0 3 2½ 3 116 15 0 0 5 0 July 1877 4296 Dolcoath, c, t, Camborne 101410 32½ 31 33 112 6 3 0 5 0 Mar. 1878 5000 East Black Oratig, *t, Seotland 5 0 0 0 10 0 0 0 10 0 6t 1877 251 000 East Darren, t, Cardigaushire 32 0 0 25 0 0 38½ 9 15 6 9 0 2 0 Feb. 1878	-
40 00 Glasgow Cars* (30,000 £1 p., 10,000 15s. p.)	
60000 Holmbush, a, c, s-l, Callington* 1 0 0 1½ 1½ 1½ 0 4 6 0 0 6 Sept. 1876 2800 Isle of Man, l, Isle of Man*7 25 0 0 3½ 3½ 4 0 12 0 Feb. 1878 20000 Leadhills,* l, Lanarkshire 6 0 0 3½ 3½ 4 0 15 0 0 3 0 Mar. 1878 400 Lisburne, l, Cardiganshire 18 15 0 75 55 55 585 10 0 1 0 0 Feb. 1878 14000 Lianidloes,* l, Montgomery 3 0 0 1½ ½ 1½ 0 9 0 0 4 6 Nov. 1878	-
9000 Marke Valley, c, Linkinhorne 5 3 6 34 55 34 7 15 0 0 2 0Jan. 1876 10000 Melanear Copper, Hayle* 2 0 0 414 414 414 0 2 0 0 2 0Jan. 1878 2000 Mining Co., t, Wrexham* 5 0 0 16 14 16 67 10 8 0 2 6Feb. 1878 2000 Mining Co. of Ireland, c', c, t* 7 0 0 23 17 6 0 2 6Feb. 1878 23 17 6 0 2 17 6 0 2 8 24 24 24 25 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 17 6 0 2 8 25 18 28 28 28 28 28 28 28 28 28 28 28 28 28	2
444 North Busy, c, Chacewater	1 2
18000 Prince Patrick, * s-l, Holywell 1 0 0 24 134 234 0 14 0 0 1 s Jan. 1876 10000 Red Rock, * l, Cardigan	1
512 South Caradon, c, 8t. Oleer	1(1)1(1)1(1)1(1)1(1)1(1)1(1)1(1)1(1)1(1
1788 West Poldice, Bt. Day 10 0 14 13 14 65 10 0. 0 10 0. Feb. 1878 1798 West Poldice, Bt. Day 10 0 15 13 15 11 15 11 15 12 15 15 12	10 6 13 5
80 Wheal Owles, t, St. Just 6	

FOREIGN DIVIDEND MINES

	FOREI	O IN	DI	AII	DEND	MINE	3.	
20000	Alamillos, I, Spain*†	1	0 1 0 7 7	0	¥6.	. 36 36	***	0 6 3 0 1 0May 187
15000 20000 34433 85000	Battle Mountain, c, (6240 part pd Birdseye Creek, g, California Cape Copper Mining, t Bo. Africa Cedar Creek, g, California Cesena Sul. Co., Romanga, Italy.	10	0	0	31	29 31 16 36	***	0 10 0 0 10 0Nov. 187
65000 10000 100000	Chicago, s, Utah*			0	11/4	11/4 11/4	***	2 8 0 0 4 0Nov. 1876 0 13 6 0 4 0Jan. 1876 7 11 5 0 3 0May 1877 2 5 9 0 2 0Mar. 1872
70000 80000 25000 55000 80000	Eberhardt & Aurora, s, Newada*† English & Australian, et S. Aust, Flagstaff, s, Utah*	1	0 0 0 0 0 0 0		11/4 51/4	5% 6% 1 1% 5% % 4% 4% 1% 2%	***	1 8 0 0 3 0Dec. 1877 2 15 9 0 1 0Mar. 1877 4 2 0 0 5 0July 1873 6 19 10 0 5 0April 1878 0 1 0 0 1 0June 1876 0 2 4 0 0 4Oct. 1872
20000 15000 65000 7837 5000 5000	Last Chance, s, " Utah Linares, j, Bpain* London and California, g*† Lusitanian, Fortugal*† (£5 sh.) Mamm. Copperpolis of Utah, c, s Mountain Chief, s, Utah* Pontgibaud, s-i, France† Port Phillip, g, Cluues*	10 20	8 0 0 0 0 0 10 0 0 0 0 0	***	30	5% 5% % 5% 27 29	***	0 14 0 0 2 0June 1878 17 7 10 0 5 0July 1873 17 1 10 0 5 0April 1878 0 1 0 0 1 0July 1875 1 11 6 0 1 0July 1875 1 11 6 0 1 6Mar. 1873 0 5 0 0 5 0Dec. 1872 0 4 0 0 4 0Jan. 1873 25 8 0 1 11 0Nov. 1873
54000 40000 20000 80000 12500	Richmond Consols, s, Novada*† Santa Barbara, *g, Brazil Scottish Australian Mining Co†† Scottish Austral. Mining Co New Sierra Buttes, g, California*† South Aurora, s, Nevada* St. John del Rey*† (£5 stock & n Tellima, g, * So. America	0 2	0 0 0 0 10 0 0 0 10 0 0 0	***	1%	% % 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***	4 4 0 0 1 0Jan. 1878 4 4 0 0 7 6Feb. 1878 0 3 9 0 1 3May 1877 15 per centNov. 1877 1 18 0 0 2 0Oct. 1877 0 14 2 0 2 0 Nov. 1877
25000 15000	Tolima, g, s" Bo. America Victoria (London)", g, Australia Western Andes, s," New Granada W. Prussian(5500 pref. sh. 10!, pd)	5 1 5 10	0 0	***	_×	305 315 36 % 10½ 11	3	4 year 20 p. ct. for Dec. 1876 0 11 6 0 6 6 May 1874 0 12 6 0 0 7 1/2 Jan. 1878 0 12 0 0 12 0 July 1876 1 8 0 0 4 0 Jan. 1878

NON-DIVIDEND FOREIG	NE	MI	NE	8.			
Mines. 5000 Anguilla Phosphate, West Indies (4000 issued) 12000 Argentine, g. Argentine Republic 3000 Bellavista, s. Peru* (£10 shares) 3000 Blue Tent, Ayd., California. 49935 Chontales, g. s. Nicaragua*† 16000 Condes of Chili, s.! 90000 Eng.ish Australien, g., Victoria* 25000 Excelsior Hydreulic Gold Washing Co., California* 10000 Exchequer, g. s. (alifornia*)	Pt 10 8 10 5 2 5 1			11/2 3 34 36	3 3 3 4 36 34 36 34 36 1 56 36	Last CailFully pdFully pdFully pdFully pdFully pdFully pdFully pdFully pd	
40000 Holoombe Valley, g,* California. 8000 Hornaches,* e,t, Bp.in	1 10 5 10 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	***	= ::	1214 13 5 514	Fully pdFully pdFully pdFully pdFully pdFully pdFully pdFully pd.	
3500 La Manche, i, Newfoundland 12000 Lanestoss, i', z, Viscaya, Spain (£2 shares) 75000 Malabar, g, Colombia* (67185 issued) 40000 Malpaso, g, Colombia* (7400 prof. shares, fully paid) 12000 Manzenberg, c, Honnef, Germanv*	10 1 1 1	0 0 15 0 0 0	***	% % %	% % % %	Fully pd. Fully pd. Mar. 1876 Fully pd. Fully pd.	
4098 New Bensoerg, 1, 1, Germany. 85000 New Quebrada, c, Venezuela* 20000 New Zealand Kapanga, g, Coromandel* 3000 Oregon, g, Oregon, U.S. (preference shares) 50000 Panuleillo, c, Chili*1 (#80000 debentures) 80000 Pestarena United, g, Italy**	5 4 4 8	8 0 0 0 0 0 0 0 0 0 0 0	***	1%	1% 1% % % 1 1%	Fully pdNov. 1876Fully pdFully pdFully pdFully pdFully pdFully pd.	
80000 Rica, 5, Colombia* (40000 issued) . \$2,181,000 Hto Tinto*, 5, Huelvas, Spain 100000 Rossa Grande, 5, Brazii*† (£1 shares) 30000 Russis Copper, Orenburg and Ufs*1	Btoo 0 1 0	0 0 0 0 0 0	***	56 % 1% 1	% % 56 17 % % 1%	Fully pd. Fully pd. Fully pd. July 1872 Fully pd. Fully pd. Fully pd.	
43174 United Mexican, s, Mexico*†† 2 14000 Utah, g, s-i, Utah* 22000 Virnberg, c Rheinbreitbach, Germany* (£2 shares) 15000 Yorke Feuinsuls, c, bouth Australia	8 1	0 0	80 80 80 80 80	2% 1 - ::	24 24 .	May 1875 Fully pd. Jan. 1878	

§ Have made calls since last dividend was paid.

FOREIGN AND MISCELLANEOUS STOCKS, BONDS, LOANS, AND TRUSTS.

Assenting total	osing.	Prices	
		2436	3
Brazilian, 1865, 5 per cent. Chilian, 1866, 7 per cent.	94	96	
	102	104	
	100	102	-
	5434	55	0
	29 1/2	2034	1
	63	00	
Do., K, Daira Sanieh	40	70	
***************************************	**	42	- 1

Foreign and Cate	sing	Frices.
Foreign and Col. Gov. Trust, 6 p. ct	6.1	66
	50	55
	55	60
	48	53
	80	86
	145	
Russian, \$14 per cent T. Mart	12%	
	97	99
United States Mort., 6 per cent	98	100

=	TO CONSTRUE	
	NON-DIVIDEND MINES.	
d.	Sagras. Pard. Last wk. Cl.	4
876 875 877 876	12000 Assheton, I, Carnarvonshire*	
74 73 77 78 77 76 78	800) Blaen Caelan, * 1, Cardigan 3 0 0 5 442 3957 Blue Hila, * 2, 8 k. Agnes 3 12 6 344 3 3000 Bodidris, * 1, 54, Denbighshire 1 0 0 13/5 13/4 1000 Bollihope Vale, * s.!, Durham 5 0 0 13/5 13/4 1000 Bollihope Vale, * s.!, Durham 5 0 0 - 1 1000 Bollinack, * 2, 5 Et. Justi 123 15 0 - 1 1000 Bollinack, * 2, 5 Et. Justi 123 15 0 - 1 1000 Bowden Hill, * * * * * * * * * * * * * * * * * *	837
78 77 76 78 76 78	50000 Cambrian,* s-l, c, Cardiganshire	34
76	512 D'Eresby Mountain, l, bl, Llanrwat., 20 0 0 121/2 13 1	15
7 8 7	10000 Dubby Syke, <i>l</i> , Durham* 0 15 0 34 14 2 4 4000 East Christon, <i>l</i> , Perranrabuloe. 7 1 0 3 23 3 3000 East Craven Moor*, <i>l</i> , Partley Bdge 10 0 10 0 9 1 8000 East Van, <i>l</i> , Cardigan 2 0 0 0 10 9 1 18000 East Van, <i>t</i> , Lindloes* 5 0 0 5 54 6 6 9	0
5 1 1 1	8000 Fronveilan, I, Mont.* [4000 sh.fy.pd.] 1 0 0 3950 Gawton, c, Tavistock	í
1	0000 Greu, 4-l, Carmarthen	
	1024 Herodof, * (, Durham 0 15 0 4s. 3s. 5s 1024 Herodofoot, (, near Liskeardt 8 10 0 8 78 9000 Hingston Down, c, Calstock * 1 0 5 0 4s. 36 50 9000 Hush Eisteddfod Minera, * 1 2 0 0 0 4s. 36 50 200 Islay, * 1, Scotland 2	
12	1000	
110 110 120	000 Mediyn Moor, t, Wendron 50 0 0 60 65 65 65 65 66 65 66 67 68 68 68 68 68 68 68 68 68 68 68 68 68	
	1 0 0	
	19 6	
500 420 (00	0 Rookhope, I, Durham* 110 0 1	
51: 500: 800: 600: 600: 450: 600: 600:	0 So. Molton Cons., s-i, No. Devon 0 3 6. 6d. 3s. 6d. 0 South Roman Gravels, i.e. 110 0. 56. 56 6d. 3s. 6d. 0 South Roskear, s. s., Camborne 6 10 0. 56. 56 56 56 56 56 56 56 56 56 56 56 56 56	
8000 6400 6400 0000 0000 0000 8000 640	Teesdale, *, Durham 1 0 0 14 114 1 15 1 15 1 15 1 15 1 15 1 1	6
000	Vaughan*, i., Cardiganshire 2 10 0	-
000	West Basset, c, Iliogant I 6 6 8 34 1	
000 000 000 000 000 000	West Liangynog, s-i, Montgomery. 2 0 0 3: 34 34 West Mary Ann, i, Menheniot 0 3 6 3 3. 4 34 34 West Milwr, s-i, Flint Company. 1 0 0 2 2 2 2 West Roakear, f, s-i, si, si, s-i, si, si, si, si, si, si, si, si, si, s	8 8 8 8 B B B B B B B B B B B B B B B B
335	West Wheal Peevor, f, Redruin 0 10 0 - West Wheal Beson, c, Cambornef 47 0 12 10 12 Wheal Agar, c, Illogan 12 0 44 44 44 Wheal Basset, c, Illogan 26 26 8 7 8 Wheal Coates, t, S. Agues 9 0 - 8 Wheal Coroor, c, Grwennap 1 5 - 8 Wheal Coroor, c, Tavastoce 4 3 0 3 4 4	t

b, blende; ci, coal; c, copper; g, gold; i, lead; s, silver; zi, slate; z-i, silver-lead; i, tin; s, zine. Limited Liability Companies; † quoted on the Stock Exchange; | have paid dividends.

Shares. Pard. Last wk. Clos. 2	*
40000 Aberdannant, f. Lianidioes*	
50000 Ballycummisk,* c, Schull 2 0 0 34 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	
0000 Cambrian.*s-l, c, Cardiganshire	
1512 D'Eresoy Cons., l, bl, Carnarvon 10 0 0 12½ 13 15 1512 D'Eresoy Mountain l, l bl, Llanrwst. 20 0 0 75 35 100 1000 Denbighshire Consolidated, l* 3 0 0 1 ½ 1 2000 Derwent, l, Durham 4 0 0 2 1½ 1½ 1000 Dubby Syke, l, Durham 15 15 0 2 1½ 1½	
1000 East Chiverton, 1, Perranzabuloe 7 1 0 3 2 3	
950 Gawton, c, Tavistock 4 5 6 1/4 1/5 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	
00 Hartington Moor,* carb. i, Derby 1 0 0 2 1½ 2 190 Harwood,* i, Durham 0 15 0 4s. 3s. 5s. 124 Herod foot, i, near Liskeardt 81 0 0 8 7 8 900 Hingston Down, c, Calstock* 1 0 5 0 4 5 0 14 14 14	
18lay, 1, Scotland	
00 Killaloe, sl, Tipperary?	
70 Ladaywell, * l, Salop. 2 10 0. 1½. ½ 1½ 10 Ditto, 10 per cent. pref., 1l. each. 0 10 0. 3%. ½ ½ 10 Levant, c, t, 8t. Just. 9 18 6. — 20 Livingstone Consols, t, St. Agnes 0 10 0. 1 . ¾ 1 20 Lovell, t, Wendron. 0 16 0. 2 . ½ 2 10 Lianphafadgr, l. Mondron. 0 16 0. 2 . ½ 2	1
0 Lianrwst,* i, Carnarvon 2 0 0 42 3 4 4 Mawston,* i, South Wales	1

,	and any o, Anglesea		1	0 0		24	. 5	6 3/8
5						20.	. 7	0 /0
1	25000 Nant-y-Ronen, s-l, Cardigan*		1 1	0 0	_			
}	15000 Nascent Copper*		1	0 0	_		•	
	4768 New Bronfloyd,* ., Cardigan (51. sh.)	3 1	0	4			43
	8000 New Dolcoath, t, c, Camborne*	. 1	8 0	0		Z	77	11
	20000 New East Foxdale, s-l, Isle of Man		0 1	0	-			1 4 74
	16000 New Fowey Consols, t, St. Blazey*		8 (0		**		
	1492 New Hendra, t, Breage		3 9	0	-			6 2
	3200 New South Merllyn, i, Flint*		10	0	1			
1			1 0	0		***	03	4 1
1			3 0	0		***	-7	4 3
J			. 0	0	-	,		
J			0	0		3	014	834
ı	2000 North Levant, t, c, St. Just	12	0	0.00		ğ	78	1/4
J			. 0	0	1	***		1
ı				0		***		
ı	2000 North Wheal Towan, t, c, Illogan		10	10.		**		
١	8400 Oole Tille # . 1 m.		19	6	-	***		
1	8400 Oola Hills,* s-l, Limerick	. 8	0	0	-			
1	12000 Pandora # /. Carnamor	-						,
l				0	1	***	- 34	1
1	16923 Parys Mountain, c, Anglesea	0	4	0	1	***	3/4	1
l		3	0	0		ś	36	36
I		5	7	3	5	***	436	5
ŧ	12000 Plynlimmon, l. Llanidloes*	5	0	0	4	***	3	4
I		2	0	0	68.	***	48.	6s.
l	2000 Prideaux Wood, t, Llanivery	2	.0	0	- 34	į	34	34
ł	5182 Prince of Welce . Collivery	5	0	0	-	***	-	
ŀ	5182 Prince of Wales, c, Calstock I	2	4	0	34	·	3/4	34
ľ	6000 Religion Console a Clark							-
1	6000 Relistian Consols, c, Gwinear	0	10	0	54	i	34	54
ı				0	1		24	í
ł	5000 Bilvereross, * c. t. Mararian	-			-		/*	_

C	Total Tropic, 1, Durnam	1	10	0	28.	. 73	, 7
						. 1	
	4200 Snowbrook, s.l, Montgomery	- 1	0	0			
	(000 So. Curro vetwith / Co. 11	. 5	0	0			
	5000 South Darson I Continganshire,	2	0	0	4		4
	30000 South de Erecht Mardigan*	1	10	0	21/4		
	30000 South de Eresby Mountain, ?	1	0	0	1		
	512 South Dolcoath, e, t, Redruth	13	5	0	114		
			3	6	6d	38.	6d
ì			10	0	56		
					- ***	/10	/0
						14	34
	987 South Wheal Crofty, c, Illogan	40	0	10.	9	7	8
	4500 South Wh. Frances, c, Illogan	7	12	4	214	2 9	11/
		2	0	0	- ***		173
١			0	0	114	1 1	1/
		1	0	0			74
	18000 Bunnyside, * i, Durham	2	0	0	214	9 0	110
		-			-/3		78
	30000 Talybont, s-l, Cardiganshire	1	0	0	114	1 1	11
		1	0	0	49	1/	78
			0	0		78	78
		1	0	0	314	119	91/
					41/4	74	4 17
		0	9	6	%	1/	275
			1	0	- ***	24 :	28
ı		2	0	0			
١		10	0	0	***		
1	10000 Tyn-y-Fron, t, Cardigan	1	0 0)	156"	12/	

640	Truro*, !, Nerquis, Flintshire	- 3	0	0	-	***	
10000	Tyn-y-Fron,* i, Cardigan	10	0	0	-		
20000	aya y aton, o, cardigan	1	0	0	15	8	13
20000	Van Consols, I, Llanidloes*	_					-/
1000	Vaughan*, i., Cardiganshire	3		0	-	***	
2000	. angular ,, Cardiganshire	10	0	0	-		
12000	West Assheton, I, Carnaryon						
				0	36	í	34
5500	West Combmartin, s-l, North Devon	- 6		8	3/		14
7000	Ditto Devon	1	0	0	****		/*
8000	W. Craven Moon / Possels P.	0	2	6	-	200	
8000	West Godolphin, t, c, Breage	10	0	0	10	***	0
19000	West Cogings to C, Breage	2	10	0,,,		1	v
				0			
10000	West Llangynog, s-i, Montgomery.	9		0		}	78
2000		-				400	
KOODO	West Milwe e./ Wiles		a	6	- 34	1	3.1

JUU	Wolf Patelev Bridge / Vonbet	_	-	4.00		***	
	West Pateiey Bridge, I, Yorkshire West Roskear, I, s-i, bl, c, Camborne.		0	0	23	6	2
			0	0	17	***	18
		8	0	0		£	
		3	0	0	-	***	**
				0	-		
000	West Wheal Seton, c, Cambornet 4 Wheal Agar, c, Illogan Wheal Basset, c, Illogan	7	0	0	12		10
12	Wheal Basset, c. Illogan?	8	0	0			
OUI	Wheal Comfort & Cagnes	8	2	6	8	***	
135	Wheal Comfort, c, Gwennap	3	0	0	1000	***	
100	Wheal Crebor, c, Tavistock	ı	5	0	-	999	
				0	- 34		36
00	Wh. Mary Hutchings, * t. Plympton; Wheal Russell C. Tavich	1	1	6		3	
00	Wheal Russell c Towisters !	1	18	6		3	

IRON AND COAL COMPANIES,

| IRON AND COAL COMPANIES | Shares | Company | Poid | Shares | Company | Poid | Shares | Shar

	WAGON COMPAN	NIE	S.		
10 20 10 10 10 10 5 10 20 5	Birmingham Wagon Co. [L.] Ditto, 2nd issue Ditto, pref., 6 per cent. British Wagon Co. [L.]. Gloucester [L.] Ditto, 5th issue Met. Rail. Car. and Wagon Co. [L.] Ditto, pref., 6 per cent. Midland North Central Wagon Co. Rail. Car. [L.] (Oldbury) Ditto, pref., 6 per cent. Ditto, pref., 6 per cent.	10 4 10 10 10 5 5 5 10 20 5	0 0	8 11½ par 9 1 3½ 5½ 7	17 3 11 9 3 6 7 27 3 6 6 5 5
10	Sheffield Wagon Co. [L.]	15 10	0 0	814 414	8)

Bt.	'Anglo-American	100	0	0	60%	21
20	Direct United States Cable	20	6	0	10/4	990
			0	U	19 18	13%
10	East. Exten., Australia and China	10	U	0	75%	7%
10	Great Northern		U	0	716	7%
98	Inda European	10			716	716
10	Indo-European			0	19	20
10	Mediterranean Extension	10	0	0	24	214
041	Reuters	8	0	0	916	10%
10	West India and Panama	10	0	0	120	1995
30	Western and Brazilian	20	0	0	416	456
1000	Western Union, 7 per cent. Mort. Bone	da 21	00	0 1	118	115

	MISCELLANEOUS.
	Stk. Atlantic and Great Western Leased
	Lines, Rental Trust 100 0 0 00
	30 Australian Agricultural
	25 Austral. Mort. Land and Finance L. 1 8 0 0 41/ 1
	10 Avonside Engine [L.]
	Str. Baltimore and Onlo, 6 per cent 100 0 0 105 1d
	10 Brighton Aquarium [L.]
	Btk. Cent. of New Jersey Con. Mort 100 0 0 cg 70
	Stk. Cent. Pacing of Calif., 1st Mort. 6 p.e. 100 0 0 1041/ 1056
8	25 City of London Real Property [L.] 12 0 0 14 1
	5 Diamond Rock Boring 4 10 0 23 25
	15 English and Foreign Credit 8 0 0
	16 Fore Street Warehouse [L.] 14 0 0 10% 11%
	15 Foster, Porter, and Co. [L.] 10 10 0 9% 10%
	5 Gen. Phos. & Chem. Works Co. [L.] 5 0 0
1	
1	
- 1	8tk. Ditto, 2nd Mort., 7 per cent 100 0 0 91 99
- 1	Stk. Illinois Cent. Sinking Fund, 5 p. cent. 100 0 0 93 68
-1	Stk. Ditto, 5 per cent
1	744 Imperial Credit L.
1	- Ditto, Surplus Certificate
1	Stk. Lenigh val. Con. Mort., A. 6, p. cent. 100 0 0 100
1	10 Millior & Saie 14.
1	25 National Discount [L.]
1	Stk. N. Cent. Rail. Con. Mort., 6 per cent. 10 0 0 80 12
1	10 Pawson and Co. [L.] 8 0 0 par
1	50 Peninsular and Oriental Steam 50 0 0 38 40 8tk. Pennsyl. Gen. Mort. 6 p. cent., 1910. 100 0 0 105 107
1	
I	
1	
ı	
ı	
ı	
1	5 Ditto, Second Bonus Three per Cents 5 0 0 912 34
Г	10 Thereis Suipaur and Copper Co
ı	Btk. Union Pacine Land Grant, let More 100 0 0 104 105
1	8tk. Union Pacific Railway, 1st Mort 100 0 0106 105
1	- I was a second

London: Printed by RICHARD MIDDLETON, and published HENRY ENGLISH (the proprietors), at their office, 25, Par STREET, E.O., where all communications are requested as addressed - April 13, 1878.